

U.S. Department of Transportation

**ISSUE: 97-47** 

Federal Aviation
Administration





November 16, 1997 - November 22, 1997

# Summary

**GENERAL AVIATION, ZAC-327** 

You can improve Air Safety by reporting the problem when you see it!

#### **SECTION**

- I Significant Occurence Report
- **II Domestic Service Difficulty Report**
- **III** International Service Difficulty Report
- IV SDR Totals by District Office
- V Index By Aircraft Make and Model
- VI Joint Aircraft System/Component Code Table



## **SDR SUMMARY**

General Aviation, ZAC-327



This summary includes domestic (United States) Service Difficulty Reports (SDRs) entered into the data base for aircraft weighing 12,500 lbs. and below. It also includes reports on aeronautical products (engines, propellers, and components), and all helicopters. A separate section for International SDRs for aircraft weighing 12,500 lbs. and under has also been included. Under a data exchange agreement, International SDRs are submitted to the FAA by the Civil Aviation Authority of other countries (currently, Canada - CAN, and Australia - AUS). All reports are sorted by aircraft make, model group (basic model), and Joint Aircraft System/Component (JASC) code. Within each aircraft model group, the specific model shown may vary, but similar types of reports will be grouped together and listed in ascending order by their JASC code. Each field contains all information submitted to the FAA. Some fields are not included in order to make the summary easier to read. Additional information may be obtained by referring to the "operator control number." Send your request to the Aviation Data Systems Branch, AFS-620 at the address or phone below.

The Regulatory Support Division (AFS-600) has established a "HomePage" on the Internet through which the same information is available. There is a large quantity of other information available through the AFS-600 HomePage such as the most current SDR system codes (i.e., Joint Aircraft System\Component Codes). The SDR Question and Answer Section of the Summary will also be transferred to the AFS-600 HomePage to simplify the process of preparing the SDR Summaries in the PDF format each week. There are "hot buttons" to take you to other locations and sites where FAA Flight Standards Service Information is available. The AFS-600 "HomePage" address is:

#### http://www.mmac.jccbi.gov/afs/afs600

"The Service Difficulty Reports in this publication are derived from unverified information submitted by the aviation community without FAA verification for accuracy. The number of SDRs submitted is not an indication of the mechanical reliability or fitness of an airline or individual operator, and the information should not be used as such."

Comments are welcomed and may be directed to:

Federal Aviation Administration Aviation Data Systems Branch, AFS-620 P.O. Box 25082 Oklahoma City, OK 73125-5029

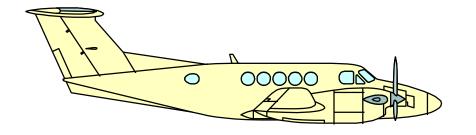
Phone: (405) 954-4171, Fax: (405) 954-4748

Your continued participation is essential and is an integral part of ensuring aviation safety. Thank you for supporting the Service Difficulty Program! If you have any questions regarding this special notice you can contact John Jackson at (405) 954-6486, or Jim Gillespie at (405) 954-1141, or Blake McDonald at (405) 954-0307 in the Aviation Systems Branch (AFS-620). Their E-mail addresses are:

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blake\_mcdonald@mmacmail.jccbi.gov



# SIGNIFICANT OCCURRENCE REPORT





#### THE SIGNIFICANT OCCURRENCE REPORT



The Significant Occurrence Report is a compilation all of the star bordered reports that appear in the General Aviation Service Difficulty Report (SDR) Summary, ZAC-327. The Significant Occurrence Report is used to highlight industry problem areas to field inspectors and the aviation public.

Limited analysis is performed by the Aviation Data Systems Branch, AFS-620 during the preparation of the "Significant Occurrence Report", which is generated each week and is included in the front of the Air Carrier SDR Summary. Significant Reports are hand selected by AFS-620's inspectors based on the individual merit of each report. The criteria for selection includes, but is not limited to, items that indicate high failure rates; items related to accidents or incidents; or design or maintenance failures which may affect the safe operation of the aircraft.

In some cases, this limited analysis of SDR data leads to the preparation of information bulletins which are routed to the appropriate product certification office for further investigation of the problem. The end result may be the issuance of an airworthiness directive (AD) by the Aircraft Certification Service (AIR) if warranted.

The Significant Occurrence Report (section I) of the weekly SDR Summary is not intended to be a summary of all significant events and should not be used as such. We recommend that you review further the applicable sections of the SDR summary that may be of interest.

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
	1880G	BBAVIA	LYC			P LEAD	SHORTED		8/31/97
7420	50	7GCBC	O320A2B				LT-RT MAG		97ZZZX4812
****	HEAD AND THE O INSULATION AND PROTECTION FOR	VERVOLTAGE RELAY P-LEAD WIRES IN SAI	LOCATED ON RIGHT ME WIRE BUNDLE. TI ON BETWEEN MASTE	UPPER SIDE OF ENC HIS SHORTED THE L R SWITCH AND OVE	GINE FIREWALL BEG EFT AND RIGHT MA	DUE TO WIRE BETWEEN M COMING EXTREMELY HOT AGNETOS CAUSING ENGIN '. SUBMITTER SUGGESTE	T. THE EXTREME TEMINE TO CEASE OPERATION	PERATURE NON. THERE	MELTED WIRE'S IS NO CIRCUIT
		BEECH	PWA		BEECH	BEARING	DESTROYED		8/27/94
3233		A100	PT6A34		99910057651	MRC7107KRD	LDG GEAR ACTUA	TR	CA940914024
****	ACTÚATOR END F		LUDED DISASSEMBL	Y HAD BEEN PERFO		NION GEARS WERE CHIPP UST BEARING HAD BEEN			
RF1R	132Z	BEECH				CRUSH WASHER	DEFORMED	8	11/8/97
5741	TJ284	58P				105090A0321UJ	LT WING BOLT		97ZZZX4814
****	SLIPPED DOWN A	PPROXIMATELY .25 IN	CH CAUSING LEFT W	ING TO HAVE MORE	E LIFT. AIRCRAFT I	. FURTHER INSPECTION R HAD JUST FINISHED WITH IS WHERE IT HAD SLIPPED	A STRUCTURAL INSPE	CTION. ALI	WASHER AND BOLT HAD LEIGHT WING BOLTS
	937R	BELL				BEARING	DEFECTIVE		11/3/97
6220	51255	206L3				206011118001	M/R GRIP		97ZZZX4833
****	ROLLER WAS MIS		RING HAD 7 ROLLERS	THAT WOULD NOT		D THEM PRIOR TO PACKIN E (APPROXIMATELY 1 INC			
	55TV	BELL				SUNGEAR	WORN	2998	10/28/97
6320	3788	206B3			206040002029	20604562101	TRANSMISSION		97ZZZX4822
****						E INSTALLED INDICATING AS WELL AS THE EXISTIN			ANT. PERIOD OF
AIHR	4837P	CESSNA				RIB	CRACKED	7200	10/31/97
5511	15284828	152					HORIZONTAL STA	.B	97ZZX4800
****						D TO BE 1 INCH, WHILE TO ATOR FROM STABILIZER.	OP, .75 INCH. THESE CR	ACKS ARE (	OVER AND BELOW THE
	2642L	CESSNA				U-JOINT	WORN	5887	10/18/97
2701	17255842	172H				0411257	LT CONTROL YOK	Œ	97ZZZX4749
****						THAT CONNECTS THE CON TH ONE SEEN IN THIS SHA			
	6529V	CESSNA				TORQUE TUBE	BROKEN	7969	10/30/97
2720	172RG0755	172RG				24670014	RUDDER CONTRO	L	97ZZZX4801
****	AFT (RIGHT HAND	O) RUDDER PEDAL TO	RQUE TUBE WAS BRO	KEN APPROXIMATI	ELY 7/8 OF THE WAY	CONTROL OF THE AIRCRA	Γ TO THE LEFT SIDE O	F THE SECTO	OR GEAR. THIS ALLOWED

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
DVPR	734EQ	CESSNA				BULKHEAD	CRACKED	8176	10/30/97
5312	17268800	172N				051300634	LT FWD DOORPO	ST	97ZZZX4760
****		EALED A CRACK IN TH CH HOLE AND PROGRE				DRPOST. CRACK WAS APPI	ROXIMATELY 1.6250 I	NCHES LONG	G. CRACK ORIGINATES AT
	3281S	CESSNA				TORQUE LINK	CRACKED	4848	11/5/97
3222	18255781	182G				0543034497	NLG		97ZZZX4798
****		JAL INSPECTION, THE DLE. BOTH SIDES WER		K OF THE NOSE LAN	DING GEAR WAS FO	OUND CRACKED IN THE RA	DIUS OF THE UPPER	FORGED RIB	ADJACENT TO THE
	931FE	CESSNA		HARTZL		BLADE	CRACKED	5378	10/22/97
6111	208B0031	208B		HCB3M		M10083	BLADE FACE	2091	97ZZZX4803
****		ND ALL 3 BLADES HAV RING INSPECTION PER				CRACKS LEAD UP TO AND EAT THIS TIME.	POSSIBLY UNDER TH	E EROSION S	HIELD. THE CRACKS
B3OR	9403Y	CESSNA				EXHAUST	CRACKED	230	10/29/97
7810	21064498	T210N				K1250860M203	TURBO INLET		97ZZZX4778
****	TURBO INLETS CF		MENTS ARE ASSEMBI	LED DIFFERENTLY, A		UND CRACKED. OUT OF 4. EVENT THIS PROBLEM. TI			
B3OR	98834	CESSNA			PARKERHAN	LINING	WORN		10/29/97
3242	310R0603	310R			99448	06603300	LT MLG BRAKE		97ZZZX4768
*****		ORN THIN. CALIPER P. IGS LOOKED GOOD.	ISTON OUT TOO FAR	R ALLOWING FLUID T	TO BYPASS O-RINGS	OR FLUID LEVEL WAS LO	W FROM CALIPER LE	AK AND NO I	FLUID IN MASTER
	3426X	MOONE				STEERING SYSTEM	FAILED		10/20/97
3250	3399	M20L					RUD-NLG		97ZZZX4799
****		ND GO LANDING, LOS BELIEVED RUDDER N			CH DOWN. ACFT RE	CEIVED SUBSTANTIAL DA	MAGE AFTER VEERIN	NG TO LEFT.	NLG BROKE AND RT MLG
B2ER	9392N	PIPER				FITTING	BROKEN	3774	10/2/97
3230	28R35102	PA28R200				6703102	RT MLG RETRAC	Γ	97ZZZX4766
****	WHEN INSPECTIN GEAR TO EXTEND		UND FITTING-GEAR I	RETRACTION, RIGHT	AND LEFT, BROKE	N WHERE ROD IS MOUNTE	ED. WHEN THIS PART	IS BROKEN I	T PREVENTS LANDING
	7325L	PIPER				BRACKET	FAILED		11/1/97
7810	317400206	PA31P				4701402	RT EXHAUST		97ZZZX4819
****		JSPECT LOOSE JOINTS				INVESTIGATION FOUND I UBMITTER RECOMMENDS			
	415WR	PIPER				BELT	FAILED	160	11/1/97
2410	3246072	PA32R301					ALT DRIVE		97ZZZX4818
****	WAS CHAFING ON		ER CAUSING THE BE	ELT TO TEAR. THIS IS	S A NEW AIRCRAFT.	ISPECTION REVEALED THE , TOTAL TIME, 159.8 HOURS			

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO			
FFKA	7748J	PIPER	LYC		SLICK	IMPULSE COUPLING	BROKEN	667	10/15/97			
7414	321152	PA32260	O540E4B5		6355	M3635	LT MAG		97ZZZX4762			
****	ABLE TO MAKE A PAWLS INSIDE IM TURNING WHICH	FORCED LANDING IN PULSE COUPLING ASS	A COW POSTURE. IN Y, PN M3635, HAD FA CRANKSHAFT AND I	VESTIGATION AND ILED CAUSING PAW DLER GEARS IN ENC	ENG TEAR DOWN RE LS TO JAM BETWEEN G ACCY HOUSING. II	TTEMPTS MADE BY PILOT EVEALED LT MAG HAD SE N MAG HOUSING AND THE NSP OF THE IMPULSE COU D HOUR INSP.	IZED. MORE SPECIF EIMPULSE COUPLING	CALLY, THE SASSY. THIS	RIVETS WHICH RETAIN PREVENTED MAG FROM			
	159RP	ROBSIN				DRAIN TUBE	LEAKS	95	11/5/97			
2810	0342	R44				A7297	RT FIREWALL		97ZZZX4811			
****	DRAIN TUBE OPENING IS LOCATED INSIDE AIRFRAME IN TRANSMISSION AREA. WHEN SUMP DRAIN VALVE LEAKS, FUEL DRAINS INTO AND ACCUMULATES AT JUNCTION OF FIREWALLS CREATING EXTREME FIRE HAZARD. SUBMITTER RECOMMENDS REVISING THE SUMP DRAIN PLUMBING ALA R22 SYSTEM TO PROVIDE POSITIVE OVERBOARD VENTING OF FUEL IN THE EVENT OF DRAIN VALVE SEEPAGE. REF: R44 IPC FIG 8-5, ITEMS 8 AND 10.											

(End of GENERAL AVIATION SIGNIFICANT OCCURRENCE REPORT)

#### Run Date: 01-Dec-97

### FEDERAL AVIATION ADMINISTRATION SIGNIFICANT OCCURRENCE REPORT INDEX

Showing Specific Part Numbers and Aircraft Model by Year

FOR THE PERIOD OF: 11/16/97 To 11/22/97

PART NUMBER			YEAR										
PART NAME	ACFT MODEL	TOTAL	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
0411257													
U-JOINT	172H	1	-	-	-	-	-	-	-	-	-	-	1
	182	1	-	-	-	-	1	-	-	-	-	-	-
UNIVERSAL	180	1	-	-	-	-	-	-	-	-	-	-	1
TOTAL of # 0411257 -		3					1						2
051300634													
BULKHEAD	172N	1	-	-	-	-	-	-	-	-	-	-	1
DOOR POST	172N	1	-	-	-	-	-	-	1	-	-	-	-
TOTAL of # 05130063	4	2							1				1
0543034497													
TORQUE LINK	182G	1											1
TOTAL of # 05430344	97	1	-	-	-	-	-	-	-	-	-	-	1
<b>06603300</b> LINING	310R	1	-	-	_	_	-	-	-	-	-	-	1
TOTAL of # 06603300		1											1
105090A0321UJ													
CRUSH WASHER	58P	1											1
TOTAL of # 105090A(	)321UJ	1	-	-	-	-	-	-	-	-	-	-	1
206011118001													
BEARING	206B3	2	-	-	-	-	-	1	1	-	-	-	-
	206L3	1	-	-	-	-	-	-	-	-	-	-	1
	206L3	3	-	-	-	-	1	1	-	-	-	-	1
TOTAL of # 20601111	8001	6					1	2	1				2
<b>20604562101</b> SUNGEAR	206B3	1	-	-	-	-	-	-	-	-	-	-	1

#### FAA SIGNIFICANT OCCURRENCE REPORT INDEX 11/16/97 To 11/22/97 (cont'd)

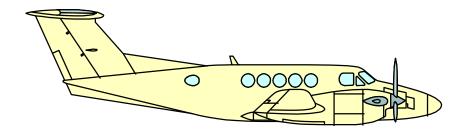
PART NUMBER								YEAR					
PART NAME	ACFT MODEL	TOTAL	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
TOTAL of # 20604562	101	1	-	-	-	-	-	-	_	-	-		1
24670014													
TORQUE TUBE	172RG	1											1
TOTAL of # 24670014		1	-	-	-	-	-	-	-	-	-	-	1
3353001100													
GEARBOX	unknown	1											1
TOTAL of # 33530011	00	1	-	-	-	-	-	_	-	_	-	-	1
4701402													
BRACKET	PA31P	1											1
TOTAL of # 4701402 -		1	-	-	-	-	-	_	-	-	-	-	1
6703102													
FITTING	PA28R180	2	-	-	-	1	-	-	1	-	-	-	-
	PA28R200	1	_	_	_	_	_	_	_	_	_	_	1
	PA32R300	1	-	-	-	-	-	1	-	-	-	-	-
	PA34200T	1	-	-	-	-	-	-	-	-	-	1	-
TOTAL of # 6703102 -		5			-	1		1	1			1	1
8954932													
PISTON	unknown	1											1
TOTAL of # 8954932 -		1	-	-	-	-	-	-	-	-	-	-	1
A7297													
DRAIN TUBE	R44	1											1
TOTAL of # A7297		1	-	-	-	-	-	-	-	-	-	-	1
K1250860M203													
EXHAUST	T210N	1											1
TOTAL of # K1250860	0M203	1	-	-	-	-	-	-	-	-	-	-	1
M10083													
BLADE	208B	1											1
TOTAL of # M10083 -		1	-	-	-	-	-	-	-	-	-	-	1
M3635 IMPULSE COUPLING	PA32260	1	-	-	-	-	-	-	-	-	-	-	1

#### FAA SIGNIFICANT OCCURRENCE REPORT INDEX 11/16/97 To 11/22/97 (cont'd)

PART NUMBER		-	YEAR										
PART NAME	ACFT MODEL	TOTAL	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
TOTAL of # M363	35	1		-			-						1
MRC7107KRD													
BEARING	A100	1	-	-	-	-	-	-	-	-	-	-	1
TOTAL of # MRC	7107KRD	1											1
TOTAL for ALL (25) I	PART NUMBERS:	29				<u> </u>	2	3	3			1	19
	OCCURRENCE REPORT INDEX												



# DOMESTIC SERVICE DIFFICULTY REPORT



ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
HEEA	789DS	BEECH				PNEUMOSTAT	FAILED		10/22/97
2130	BB478	200BEECH				1013800133	CABIN PRESS		HEEA0011660
	PNEUMOSTAT FA	ILED PRESSURE TEST	IN FLIGHT.						
HEEA	789DS	BEECH				PRESSURE CONTROL	DEFECTIVE		11/7/97
2130	BB478	200BEECH				1303466	CABIN RATE		HEEA0011823
	PRESSURIZATION	RATE KNOB STIFF.							
HEEA	30PH	BEECH				PUMP	LEAKING		10/22/97
2822	BB635	200BEECH				91380003	FUEL SYS		HEEA0011678
	FUEL PUMP LEAK	ING AT DRIVE SHAFT.							
HEEA	500PH	BEECH				TORQUEMETER	DEFECTIVE		10/22/97
7712	BL29	200CBEECH				1013890053	ENGINE		HEEA0011719
	TORQUEMETER C	CALIBRATION IS OFF, T	RANSMITS HIGH.						
RF1R	132Z	BEECH				GEARBOX	OUT OF RIG	4990	11/8/97
3230	TJ284	58P					LANDING GEAR	8	97ZZZX4795
		N OF AIRCRAFT, THE L VARD ROD END HAD B		NO INTERNAL GEAR	CLEARANCE IN AC	CTUATOR GEARBOX. AIRC	RAFT HAD BEEN RIG	GED 7.5 HOU	RS PRIOR AFTER THE
RF1R	132Z	BEECH				STEP	CRACKED	4990	11/8/97
5260	TJ284	58P				00243007621	RT SIDE	8	97ZZZX4816
	UPON INSPECTION	N OF AIRCRAFT, FOUN	D RIGHT SIDE ASSIS	T STEP CRACKED WI	HERE IT HAD BEEN	WELDED 7.5 HOURS AGO.			
RF1R	132Z	BEECH				BULKHEAD	MISINSTALLED	8	11/8/97
5312	TJ284	58P				00244002455	AFT FUSELAGE		97ZZZX4815
						Γ HEADS CLEARLY HAVE C IOVED AND REPLACED ANI			RONG SET WAS USED TO
RF1R	132Z	BEECH				FAIRING	DEFORMED	4990	11/8/97
5350	TJ284	58P				10210002617	LT WING		97ZZZX4794
	UPON INSPECTION 7.5 HOURS PRIOR		D LT WING INBOARI	FAIRING DENTED A	AND DEFORMED. W	'ING HAD JUST BEEN REMC	OVED AND REINSTAL	LED FOR A S	TRUCTURAL INSPECTION
RF1R	132Z	BEECH				CRUSH WASHER	DEFORMED	8	11/8/97
5741	TJ284	58P				105090A0321UJ	LT WING BOLT		97ZZZX4814
****	SLIPPED DOWN A	PPROXIMATELY .25 IN	CH CAUSING LEFT V	VING TO HAVE MORE	E LIFT. AIRCRAFT H	. FURTHER INSPECTION RE HAD JUST FINISHED WITH A S WHERE IT HAD SLIPPED A	STRUCTURAL INSPE	ECTION. ALL	
		BEECH				BENDIX DRIVE	FAILED	258	11/14/97
8011		76			MHB4014	ESEBB142A	STARTER		97ZZZX4813
		FAILED AFTER 194 HOU ND AT 258 HOURS, CLE				ACED WITH SAME, FAILED HOURS.	AFTER 396.6 HOURS	. REPLACED	WITH EBB142A. EBB142A

DOMEST	IC SERVICE DIFF	FICULTY REPORT	SUMMARY - AIR	CRAFT (cont'd)			<u>11/16/97 T</u>	o 11/22/97	ISSUE: 97-47 ZAC-327
ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
AIHR	4837P	CESSNA				RIB	CRACKED	7200	10/31/97
5511	15284828	152					HORIZONTAL STA	AB	97ZZZX4800
****						D TO BE 1 INCH, WHILE T TOR FROM STABILIZER.	OP, .75 INCH. THESE CI	RACKS ARE	OVER AND BELOW THE
	21089	CESSNA				WHEEL	BROKE	2770	8/25/97
2701	17249608	172D				15131682	PILOT YOKE		97ZZZX4817
	PILOT CONTROL Y MOST OF THE TIM	· · · · · · · · · · · · · · · · · · ·	DE BOTTOM, IN LANI	DING FULL STALL CO	ONDITION. PLASTIC	C MAY HAVE AGED. AIRO	CRAFT IS A 1962 MODE	L AND HAS	BEEN PARKED OUTSIDE
	2642L	CESSNA				U-JOINT	WORN	5887	10/18/97
2701	17255842	172H				0411257	LT CONTROL YO	KE	97ZZZX4749
****		,				THAT CONNECTS THE CO TH ONE SEEN IN THIS SH			
	6529V	CESSNA				TORQUE TUBE	BROKEN	7969	10/30/97
2720	172RG0755	172RG				24670014	RUDDER CONTRO	)L	97ZZZX4801
****	AFT (RIGHT HAND	O) RUDDER PEDAL TOP	QUE TUBE WAS BRO	OKEN APPROXIMATE	ELY 7/8 OF THE WAY	CONTROL OF THE AIRCR Y AROUND THE TUBE JUS ECAUSE OF THIS, THE RU	ST TO THE LEFT SIDE O	F THE SECT	OR GEAR. THIS ALLOWED
DVPR	733JS	CESSNA				BULKHEAD	CRACKED	8509	10/30/97
5312	17268335	172N				05132823	LT FWD DOORPO	ST	97ZZZX4756
		EALED A CRACK IN TH IGINATES AT AFT HIN				T. CRACK WAS APPROXII	MATELY 1.25 INCHES L	ONG. DOOR	POST WAS REPLACED.
DVPR	734EQ	CESSNA				BULKHEAD	CRACKED	8176	10/30/97
5312	17268800	172N				051300634	LT FWD DOORPO	ST	97ZZZX4760
****		EALED A CRACK IN TH CH HOLE AND PROGRE				DRPOST. CRACK WAS AP	PROXIMATELY 1.6250 I	NCHES LON	G. CRACK ORIGINATES AT
DVPR	734FX	CESSNA				BULKHEAD	CRACKED	8314	10/30/97
5312	17268829	172N				05132823	LT FWD DOORPO	ST	97ZZZX4759
	ATTACHMENT MO	OVED. FURTHER INSPI	ECTION REVEALED A	A CRACK IN THE AFT	FORWARD DOORP	OOR WAS OPENED AGAIN OST APPROXIMATELY 2. AIRCRAFT. M.D. REPORT	75 INCHES LONG NECE	SSITATING I	
<u> </u>	2642L	CESSNA				MUFFLER	CRACKED	2800	10/18/97
7820	17255842	172H					LT EXH RISER		97ZZZX4751
		WERE FOUND CRACKI ANNUAL INSPECTION.	ED AT RISERS AND B	AFFLES WERE COLL	APSED AND HAD B	EEN FOR SOME TIME. TH	IIS WOULD NOT ALLOV	V ENGINE TO	DEVELOP FULL POWER.
	2642L	CESSNA				MUFFLER	CRACKED	2800	10/18/97
7820	17255842	172H					RT EXH RISER		97ZZZX4750
		WERE FOUND CRACKI ANNUAL INSPECTION.	ED AT RISERS AND B	AFFLES WERE COLL	APSED AND HAD B	EEN FOR SOME TIME. TH	IIS WOULD NOT ALLOV	V ENGINE TO	DEVELOP FULL POWER.
	3281S	CESSNA				TORQUE LINK	CRACKED	4848	11/5/97
3222	18255781	182G				0543034497	NLG		97ZZZX4798

DURING AN ANNUAL INSPECTION, THE UPPER TORQUE LINK OF THE NOSE LANDING GEAR WAS FOUND CRACKED IN THE RADIUS OF THE UPPER FORGED RIB ADJACENT TO THE

ATTACH BOLT HOLE. BOTH SIDES WERE CRACKED.

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DOMESTIC SERVICE	DIEERCHII TV D	EDODT CHMMADY	AIDCD AET (sential)
DOMESTIC SEKVICE	DIFFICULTY K	EPUK I SUMIMAK Y -	AIKUKAFI (CONLO)

DOMEST	IC SERVICE DIF	FICULTY REPORT	SUMMARY - AIR	RCRAFT (cont'd)			<u>11/16/97 T</u>	o 11/22/97	ISSUE: 97-47 ZAC-32
ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
DVPR		CESSNA				PLUG	BROKEN		10/29/97
3243		210N				0541139	BRAKE VENT PLU	IG	97ZZZX4753
		FROM STOCK. WHEN S SE PLUGS ARE MADE I			*	G BROKE OFF. A SECOND P	LUG WAS INSTALLEI	D BY HAND A	ND IT BROKE IN THE
	121RJ	CESSNA				CARRY THRU SPAR	CORRODED		10/1/97
5711	21059735	T210L					CABIN OVERHEA	D	97ZZZX4793
	INSPECTION FOUR	ND CABIN OVERHEAD	CARRY-THROUGH S	PAR CORRODED WH	ERE FRESH AIR DU	CT PASSES THROUGH. SUS	SPECT DISSIMILAR M	ETAL CONTA	CT.
B3OR	9403Y	CESSNA				EXHAUST	CRACKED	230	10/29/97
7810	21064498	T210N				K1250860M203	TURBO INLET		97ZZZX4778
****	TURBO INLETS CI		ENTS ARE ASSEMBI	LED DIFFERENTLY, A		UND CRACKED. OUT OF 4 . EVENT THIS PROBLEM. TI			
	761KC	CESSNA			GARRTT	TURBOCHARGER	LOOSE	1438	10/16/97
8120	21062308	T210M				406C109005	CENTER SECT		97ZZZX4763
	THERE WAS EVID	ENCE OF EXHAUST IN	THIS AREA. IT IS AS	SUMED THESE BOLT	S WERE LEFT LOO	HE CENTER SECTION TO T SE DURING INSTALLATION EFORE SAFTEYING AND/O	TO ALLOW TURBO I	BOLTS TO ALI	
B3OR	98834	CESSNA			PARKERHAN	LINING	WORN		10/29/97
3242	310R0603	310R			99448	06603300	LT MLG BRAKE		97ZZZX4768
****		ORN THIN. CALIPER PI IGS LOOKED GOOD.	STON OUT TOO FAR	ALLOWING FLUID T	O BYPASS O-RINGS	OR FLUID LEVEL WAS LO	W FROM CALIPER LE	AK AND NO F	LUID IN MASTER
	3246M	CESSNA				BRAKE LINE	FAILED	15038	9/22/97
3240	402C0294	402C				581710240	LT MASTER CYL		97ZZZX4797
	THE LT MASTER O	CYLINDER BRAKE LINE	E CRACKED BECAUS	E CONTINUAL FLEX	ING DURING BRAKI	ING CAUSED THE LINE TO	CRACK AT THE 180-D	EGREE END.	
CWQR	211QS	CESSNA				BEARING	WORN		11/4/97
5753	0011	S550				CC50380	FLAP ATTACH		97ZZZX4775
	HAD COTTER KEY	· · · · · · · · · · · · · · · · · · ·	FAR DOWN ON THRE			EVED TWO NEW BEARINGS PROPER ATTACHMENT OF			
CWQR	211QS	CESSNA				BEARING	MISMANUFACTU	REC	11/4/97
5753	0011	S550				CC50380	FLAP ATTACH		97ZZZX4776
	HAD COTTER KEY		FAR DOWN ON THRE			EVED TWO NEW BEARINGS PROPER ATTACHMENT OF			
·	31SG	CESSNA				BEARING	FAILED	100	10/28/97
2435	5250207	525					START/GEN		97ZZZX4826
	PII OT REPORTED	DE CENED ASOD EARL	DE UDON DUENT		CTADTED/CENEDA	TOD HAD A STRONG BURN	T SMELL AFTED ELL	DTHED INCDE	
						ED THE STARTER/GENERA		KI HEK INSFE	ECTION, DISCOVERED
								KIHEK INSFE	ECTION, DISCOVERED  10/20/97

DURING TOUCH AND GO LANDING, LOST CONTROL OF ACFT FOLLOWING TOUCH DOWN. ACFT RECEIVED SUBSTANTIAL DAMAGE AFTER VEERING TO LEFT. NLG BROKE AND RT MLG

COLLAPSED. IT IS BELIEVED RUDDER NLG STEERING SYSTEM BOLT SHEARED.

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DOLUMENTO OFFICE	DIFFERENCE BY DEPONDER OF DATA OF A DATA	ATD OD A DEC ( 11)
DOMESTIC SERVICE	DIFFICULTY REPORT SUMMARY	- AIRCRAFT (confid)

DOMESTI	DOMESTIC SERVICE DIFFICULTY REPORT SUMMARY - AIRCRAFT (cont'd)  11/16/97 To 11/22/97 ISSUE: 97-47 ZAC-327											
ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO			
B2ER	9392N	PIPER				FITTING	BROKEN	3774	10/2/97			
3230	28R35102	PA28R200				6703102	RT MLG RETRACT		97ZZZX4766			
****	WHEN INSPECTINGEAR TO EXTEND		IND FITTING-GEAR F	RETRACTION, RIGHT	AND LEFT, BROKE	N WHERE ROD IS MOUNTE	D. WHEN THIS PART I	S BROKEN IT	PREVENTS LANDING			
B2ER	9392N	PIPER				FITTING	BROKEN	3774	10/2/97			
3230	28R35102	PA28R200				6703103	LT MLG RETRACT		97ZZZX4765			
	WHEN INSPECTINGEAR TO EXTEND		IND FITTING-GEAR F	RETRACTION, RIGHT	AND LEFT, BROKE	N WHERE ROD IS MOUNTE	D. WHEN THIS PART I	S BROKEN IT	PREVENTS LANDING			
	33810	PIPER				FITTING	CORRODED		10/17/97			
5711	287515303	PA28151				6244802	REAR SPAR		97ZZZX4754			
	DURING INSPECTI	ON PER SB 977 FOUND	REAR SPAR CARRY	THRU LOWER FITTIN	NG (LEFT) BADLY C	ORRODED. REPLACED PA	RT.					
FFSA	7164D	PIPER				BOLT	FAILED	1315	11/4/97			
7120	318052013	PA31350				LW315444	ENG MOUNT		97ZZZX4758			
	LOWER RIGHT HA	ND ATTACH BOLT HA	D LOOSENED AND V	IBRATED UNTIL THE	E NUT AND COTTER	PIN WORE OUT AND CAM	IE OFF. BOLT THEN FE	ELL OUT.				
	7325L	PIPER				BRACKET	FAILED		11/1/97			
7810	317400206	PA31P				4701402	RT EXHAUST		97ZZZX4819			
****		JSPECT LOOSE JOINTS				INVESTIGATION FOUND I UBMITTER RECOMMENDS						
	7164D	PIPER	LYC			BOLT	FAILED		11/5/97			
8120	318052013	PA31350	LTIO540J2BD		LW18302	LW31S444	LEFT ENGINE		97ZZZX4802			
	TURBOCHARGER	MOUNT LOWER RIGHT	T HAND ATTACH BO	LT LOOSENED AND V	VIBRATED UNTIL T	HE NUT AND COTTER KEY	FAILED. BOLT THEN	DEPARTED T	HE ENGINE.			
	415WR	PIPER				BELT	FAILED	160	11/1/97			
2410	3246072	PA32R301					ALT DRIVE		97ZZZX4818			
****	WAS CHAFING ON		ER CAUSING THE BE	LT TO TEAR. THIS IS	A NEW AIRCRAFT,	SPECTION REVEALED THE TOTAL TIME, 159.8 HOURS						
	7693F	PIPER				SWITCH	FAILED		10/15/97			
2430	347770068	PA34200T				587837	BATTERY MASTER	1	97ZZZX4761			
		'OPENED' INTERNALLY ITCH CORRECTED PRO		ΓΕ ELECTRICAL FAIL	URE DURING FLIGI	HT. GEAR WAS EXTENDED	BY EMERGENCY MEA	ANS AND LAN	DING WAS NORMAL.			
	723KD	PIPER				SWITCH	SEPARATED	6465	10/9/97			
3230	447995274	PA44180				8640902	RT MLG DOWNLO	CK	97ZZZX4757			
		TCH INTERIOR SEPARA DELOAD HOOKS DISEN			CAME JAMMED UN	IDER DOWNLOCK HOOK C	AUSING INCOMPLETE	ENGAGEMEN	T OF HOOK, WHEN			

OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
HEEA	3207T	AEROSP				GEARBOX	MAKING METAL	7154	11/5/97
6320	2441	SA315B				319A62000003	M/R GR BOX		HEEA0011797
	MAIN GR BOX MA	AKING METAL.							
KY1R	95MD	AEROSP				VALVE	LEAKS	4174	10/14/97
7170	6320	SA365N1				0174078010	START DRAIN		97ZZZX4809
	START DRAIN VA	LVE UNIT LEAKS. REP	AIR AS NECESSARY.						
KY1R	38MD	AEROSP				VALVE	LEAKS	831	10/19/97
7170	6335	SA365N1				0174078010	START DRAIN		97ZZZX4831
	DRAIN VALVE LE	AKS AT SEAMS.							
HQEA	100S	AGUSTA				RIB	BROKEN	1697	10/21/97
5511	7644	A109C				1090200059	LT HORIZ STAB		97ZZZX4829
					,	Z 4 POUNDS), WAS FOUND BOARD RIB WITH BOLTS A			HORIZONTAL STABILIZER THE RIVNUTS OUT OF
GDMR	58НЈ	BELL				BLADE	FAILED		10/23/97
6410	30314	205A1				212010750105	T/R BLADE TIP		97ZZZX4824
		EXAMINATION OF TAI		,		OF VIBRATION WHILE IN THER DAMAGE WAS APPA			
		ED I ROBLEM: (A)							
GDMA	58HJ	BELL BELL	LYC			OIL PUMP	FAILED	4346	10/18/97
GDMA 7261	58НЈ 30314		LYC T5313B			OIL PUMP 13002124	FAILED ENGINE OIL	4346 1005	10/18/97 97ZZZX4823
	30314 PILOT REPORTED PUMP DRIVESHAI	BELL 205A1 LOSS OF OIL PRESSUR	T5313B RE IN-FLIGHT. THE F EN. WHEN PUMP WA	S REMOVED, A PIECE			ENGINE OIL SHUT DOWN. UPON IN	1005 NVESTIGATIO	97ZZZX4823 ON, THE ENGINE OIL
	30314 PILOT REPORTED PUMP DRIVESHAI	BELL 205A1 LOSS OF OIL PRESSUR FT WAS FOUND BROKE	T5313B RE IN-FLIGHT. THE F EN. WHEN PUMP WA	S REMOVED, A PIECE		13002124 Y AND THE ENGINE WAS	ENGINE OIL SHUT DOWN. UPON IN	1005 NVESTIGATIO	97ZZZX4823 ON, THE ENGINE OIL
7261	30314 PILOT REPORTED PUMP DRIVESHAI TIME, IT IS NOT K	BELL 205A1 LOSS OF OIL PRESSUR FT WAS FOUND BROKE NOWN WHERE THE GE	T5313B RE IN-FLIGHT. THE F EN. WHEN PUMP WA	S REMOVED, A PIECE		13002124 Y AND THE ENGINE WAS ELL FROM PUMP OIL PAS	ENGINE OIL SHUT DOWN. UPON IN SAGE. GEAR PIECE IS I	1005 NVESTIGATIO	97ZZZX4823 ON, THE ENGINE OIL THE OIL PUMP. AT THIS
7261 HEEA	30314 PILOT REPORTED PUMP DRIVESHAI TIME, IT IS NOT K 5007N 45184	BELL 205A1 LOSS OF OIL PRESSUR FT WAS FOUND BROKE NOWN WHERE THE GE	T5313B RE IN-FLIGHT. THE F RN. WHEN PUMP WA EAR TOOTH CAME FI	S REMOVED, A PIECE ROM.		13002124 Y AND THE ENGINE WAS ELL FROM PUMP OIL PAS AMPLIFIER	ENGINE OIL SHUT DOWN. UPON IN SAGE. GEAR PIECE IS I	1005 NVESTIGATIO	97ZZZX4823 DN, THE ENGINE OIL THE OIL PUMP. AT THIS
7261 HEEA	30314 PILOT REPORTED PUMP DRIVESHAI TIME, IT IS NOT K 5007N 45184	BELL 205A1 LOSS OF OIL PRESSUR FT WAS FOUND BROKE NOWN WHERE THE GE BELL 206L1	T5313B RE IN-FLIGHT. THE F RN. WHEN PUMP WA EAR TOOTH CAME FI	S REMOVED, A PIECE ROM.		13002124 Y AND THE ENGINE WAS ELL FROM PUMP OIL PAS AMPLIFIER	ENGINE OIL SHUT DOWN. UPON IN SAGE. GEAR PIECE IS I	1005 NVESTIGATIO	97ZZZX4823 DN, THE ENGINE OIL THE OIL PUMP. AT THIS
7261 HEEA 2330	30314 PILOT REPORTED PUMP DRIVESHAI TIME, IT IS NOT K 5007N 45184 PA AMPLIFIER GE	BELL 205A1 LOSS OF OIL PRESSUR FT WAS FOUND BROKE NOWN WHERE THE GE BELL 206L1 ETS EXCESSIVELY HOT	T5313B RE IN-FLIGHT. THE F RN. WHEN PUMP WA EAR TOOTH CAME FI	S REMOVED, A PIECE ROM.		13002124 Y AND THE ENGINE WAS ELL FROM PUMP OIL PAS AMPLIFIER AA20030	ENGINE OIL SHUT DOWN. UPON IN SAGE. GEAR PIECE IS I  OVERHEATS PUB ADDRESS	1005 NVESTIGATIO	97ZZZX4823 DN, THE ENGINE OIL THE OIL PUMP. AT THIS 10/22/97 HEEA0011664
7261 HEEA 2330 HEEA	30314 PILOT REPORTED PUMP DRIVESHAI TIME, IT IS NOT K 5007N 45184 PA AMPLIFIER GE 2268G 3603	BELL 205A1 LOSS OF OIL PRESSUR FT WAS FOUND BROKE NOWN WHERE THE GE BELL 206L1 ETS EXCESSIVELY HOT BELL 206B3	T5313B RE IN-FLIGHT. THE F REN. WHEN PUMP WA REAR TOOTH CAME FI THEN SHUTS DOWN	S REMOVED, A PIECE ROM. N.	E OF GEAR TOOTH F	13002124 Y AND THE ENGINE WAS ELL FROM PUMP OIL PAS  AMPLIFIER AA20030  REGULATOR	ENGINE OIL SHUT DOWN. UPON IN SAGE. GEAR PIECE IS I  OVERHEATS PUB ADDRESS  DEFECTIVE DC SYS	1005 NVESTIGATIO	97ZZZX4823 ON, THE ENGINE OIL THE OIL PUMP. AT THIS 10/22/97 HEEA0011664
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7261  HEEA 2330  HEEA 2436	30314 PILOT REPORTED PUMP DRIVESHAI TIME, IT IS NOT K 5007N 45184 PA AMPLIFIER GE 2268G 3603 GENERATOR WIL	BELL 205A1  CLOSS OF OIL PRESSUR FT WAS FOUND BROKE NOWN WHERE THE GE BELL 206L1 ETS EXCESSIVELY HOT BELL 206B3 L NOT RESET. REGULA	T5313B RE IN-FLIGHT. THE F REN. WHEN PUMP WA REAR TOOTH CAME FI THEN SHUTS DOWN	S REMOVED, A PIECE ROM. N.	E OF GEAR TOOTH F	13002124 AY AND THE ENGINE WAS ELL FROM PUMP OIL PAS  AMPLIFIER AA20030  REGULATOR 15891F IS CRACKED AND CHIPPI	ENGINE OIL SHUT DOWN. UPON IN SAGE. GEAR PIECE IS I  OVERHEATS PUB ADDRESS  DEFECTIVE DC SYS  ED.	1005 NVESTIGATIO	97ZZZX4823 DN, THE ENGINE OIL THE OIL PUMP. AT THIS 10/22/97 HEEA0011664 11/7/97 HEEA0011829
7261  HEEA 2330  HEEA 2436  HEEA	30314 PILOT REPORTED PUMP DRIVESHAI TIME, IT IS NOT K 5007N 45184 PA AMPLIFIER GE 2268G 3603 GENERATOR WIL 5019F 45244	BELL 205A1  CLOSS OF OIL PRESSUR FT WAS FOUND BROKE NOWN WHERE THE GE BELL 206L1 ETS EXCESSIVELY HOT BELL 206B3 L NOT RESET. REGULA	T5313B RE IN-FLIGHT. THE F REN. WHEN PUMP WA EAR TOOTH CAME FI THEN SHUTS DOWN ATOR POTENTIOMET	S REMOVED, A PIECE ROM. N.	E OF GEAR TOOTH F	13002124 AY AND THE ENGINE WAS ELL FROM PUMP OIL PAS  AMPLIFIER AA20030  REGULATOR 15891F IS CRACKED AND CHIPPI REGULATOR	ENGINE OIL SHUT DOWN. UPON IN SAGE. GEAR PIECE IS I  OVERHEATS PUB ADDRESS  DEFECTIVE DC SYS ED. FAILED	1005 NVESTIGATIO	97ZZZX4823 DN, THE ENGINE OIL THE OIL PUMP. AT THIS 10/22/97 HEEA0011664 11/7/97 HEEA0011829 10/22/97
7261  HEEA 2330  HEEA 2436  HEEA	30314 PILOT REPORTED PUMP DRIVESHAI TIME, IT IS NOT K 5007N 45184 PA AMPLIFIER GE 2268G 3603 GENERATOR WIL 5019F 45244	BELL 205A1  LOSS OF OIL PRESSUR FT WAS FOUND BROKE KNOWN WHERE THE GE BELL 206L1 ETS EXCESSIVELY HOT BELL 206B3 L NOT RESET. REGULA BELL 206L1	T5313B RE IN-FLIGHT. THE F REN. WHEN PUMP WA EAR TOOTH CAME FI THEN SHUTS DOWN ATOR POTENTIOMET	S REMOVED, A PIECE ROM. N.	E OF GEAR TOOTH F	13002124 AY AND THE ENGINE WAS ELL FROM PUMP OIL PAS  AMPLIFIER AA20030  REGULATOR 15891F IS CRACKED AND CHIPPI REGULATOR	ENGINE OIL SHUT DOWN. UPON IN SAGE. GEAR PIECE IS I  OVERHEATS PUB ADDRESS  DEFECTIVE DC SYS ED. FAILED	1005 NVESTIGATIO	97ZZZX4823 DN, THE ENGINE OIL THE OIL PUMP. AT THIS 10/22/97 HEEA0011664 11/7/97 HEEA0011829 10/22/97
7261  HEEA 2330  HEEA 2436  HEEA 2436	30314 PILOT REPORTED PUMP DRIVESHAI TIME, IT IS NOT K 5007N 45184 PA AMPLIFIER GE 2268G 3603 GENERATOR WIL 5019F 45244 VOLTAGE REGUL	BELL 205A1 LOSS OF OIL PRESSUR FT WAS FOUND BROKE NOWN WHERE THE GE BELL 206L1 ETS EXCESSIVELY HOT BELL 206B3 L NOT RESET. REGULA BELL 206L1 ATOR FAILED. NO VO	T5313B RE IN-FLIGHT. THE F REN. WHEN PUMP WA EAR TOOTH CAME FI THEN SHUTS DOWN ATOR POTENTIOMET	S REMOVED, A PIECE ROM. N.	E OF GEAR TOOTH F	13002124 AY AND THE ENGINE WAS ELL FROM PUMP OIL PAS  AMPLIFIER AA20030  REGULATOR 15891F IS CRACKED AND CHIPPI REGULATOR 206075447007	ENGINE OIL SHUT DOWN. UPON IN SAGE. GEAR PIECE IS I  OVERHEATS PUB ADDRESS  DEFECTIVE DC SYS ED.  FAILED DC VOLTS	1005 NVESTIGATIO	97ZZZX4823 DN, THE ENGINE OIL THE OIL PUMP. AT THIS  10/22/97 HEEA0011664  11/7/97 HEEA0011829  10/22/97 HEEA0011632
7261  HEEA 2330  HEEA 2436  HEEA 2436  HEEA	30314 PILOT REPORTED PUMP DRIVESHAI TIME, IT IS NOT K 5007N 45184 PA AMPLIFIER GE 2268G 3603 GENERATOR WIL 5019F 45244 VOLTAGE REGUL 3108E 51498	BELL 205A1  CLOSS OF OIL PRESSUR FT WAS FOUND BROKE NOWN WHERE THE GE BELL 206L1 ETS EXCESSIVELY HOT BELL 206B3 L NOT RESET. REGULA BELL 206L1 ATOR FAILED. NO VOI	T5313B RE IN-FLIGHT. THE F EN. WHEN PUMP WA EAR TOOTH CAME FI THEN SHUTS DOWN ATOR POTENTIOMET	S REMOVED, A PIECE ROM. N. TER IS CORRODED AN	E OF GEAR TOOTH F	13002124 AY AND THE ENGINE WAS ELL FROM PUMP OIL PAS  AMPLIFIER AA20030  REGULATOR 15891F IS CRACKED AND CHIPPI REGULATOR 206075447007  REGULATOR	ENGINE OIL SHUT DOWN. UPON IN SAGE. GEAR PIECE IS I  OVERHEATS PUB ADDRESS  DEFECTIVE DC SYS ED.  FAILED DC VOLTS	1005 NVESTIGATIO	97ZZZX4823 DN, THE ENGINE OIL THE OIL PUMP. AT THIS  10/22/97 HEEA0011664  11/7/97 HEEA0011829  10/22/97 HEEA0011632
7261  HEEA 2330  HEEA 2436  HEEA 2436  HEEA	30314 PILOT REPORTED PUMP DRIVESHAI TIME, IT IS NOT K 5007N 45184 PA AMPLIFIER GE 2268G 3603 GENERATOR WIL 5019F 45244 VOLTAGE REGUL 3108E 51498	BELL 205A1 PLOSS OF OIL PRESSUR FT WAS FOUND BROKE KNOWN WHERE THE GE BELL 206L1 ETS EXCESSIVELY HOT BELL 206B3 L NOT RESET. REGULA BELL 206L1 ATOR FAILED. NO VOI BELL 206L3	T5313B RE IN-FLIGHT. THE F EN. WHEN PUMP WA EAR TOOTH CAME FI THEN SHUTS DOWN ATOR POTENTIOMET	S REMOVED, A PIECE ROM. N. TER IS CORRODED AN	E OF GEAR TOOTH F	13002124 AY AND THE ENGINE WAS ELL FROM PUMP OIL PAS  AMPLIFIER AA20030  REGULATOR 15891F IS CRACKED AND CHIPPI REGULATOR 206075447007  REGULATOR	ENGINE OIL SHUT DOWN. UPON IN SAGE. GEAR PIECE IS I  OVERHEATS PUB ADDRESS  DEFECTIVE DC SYS ED.  FAILED DC VOLTS	1005 NVESTIGATIO	97ZZZX4823 DN, THE ENGINE OIL THE OIL PUMP. AT THIS  10/22/97 HEEA0011664  11/7/97 HEEA0011829  10/22/97 HEEA0011632
7261  HEEA 2330  HEEA 2436  HEEA 2436  HEEA 2436	30314 PILOT REPORTED PUMP DRIVESHAI TIME, IT IS NOT K 5007N 45184 PA AMPLIFIER GE 2268G 3603 GENERATOR WIL 5019F 45244 VOLTAGE REGUL 3108E 51498 REGULATOR WIL	BELL 205A1 LOSS OF OIL PRESSUR FT WAS FOUND BROKE NOWN WHERE THE GE BELL 206L1 ETS EXCESSIVELY HOT BELL 206B3 L NOT RESET. REGULA BELL 206L1 ATOR FAILED. NO VOI BELL 206L3 L NOT REGULATE TRIE	T5313B RE IN-FLIGHT. THE F EN. WHEN PUMP WA EAR TOOTH CAME FI THEN SHUTS DOWN ATOR POTENTIOMET	S REMOVED, A PIECE ROM. N. TER IS CORRODED AN	E OF GEAR TOOTH F	13002124 AY AND THE ENGINE WAS ELL FROM PUMP OIL PAS  AMPLIFIER AA20030  REGULATOR 15891F IS CRACKED AND CHIPPI REGULATOR 206075447007  REGULATOR 206075447007	ENGINE OIL SHUT DOWN. UPON IN SAGE. GEAR PIECE IS I  OVERHEATS PUB ADDRESS  DEFECTIVE DC SYS ED.  FAILED DC VOLTS  FAILED DC VOLTS	1005 NVESTIGATIO	97ZZZX4823 DN, THE ENGINE OIL THE OIL PUMP. AT THIS  10/22/97 HEEA0011664  11/7/97 HEEA0011829  10/22/97 HEEA0011632  10/22/97 HEEA0011692

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
HEEA	2759U	BELL			NARCO	ELT	FAILED		10/22/97
2562	45267	206L1				ELT910	COCKPIT		HEEA0011675
	ELT ACTIVATION	LIGHT STAYS ON.							
HEEA	6251Y	BELL			NARCO	ELT	INOPERATIVE		11/5/97
2562	51556	206L3				ELT10	COCKPIT		HEEA0011780
	ELT INOPERATIVE	E, BATTERY DEAD.							
HEEA	2253E	BELL				VALVE	DEFECTIVE		11/5/97
2820	45758	206L1				206063640101	FUEL SYS		HEEA0011770
	6 TO 10 SEC DELA	Y INTERMITTENTLY W	HEN SWITCH IS AC	ΓΙVATED. SENT TO Ι	BELL HELICOPTER T	TEXTRON FOR INSPECTIO	N AND REPAIR.		
HEEA	8589X	BELL				CARTRIDGE	INOPERATIVE		10/22/97
2820	51487	206L3				2C271	FUEL SYS		HEEA0011697
	CARTRIDGE INOP	ERATIVE.							
HEEA	10778	BELL				INDICATOR	STICKS		10/22/97
2841	45391	206L1				206063633001	FUEL QTY		HEEA0011711
	FUEL QTY GAUGE	E STICKS.							
HEEA	8588X	BELL				POWER SUPPLY	INOPERATIVE		10/22/97
3310	51486	206L3				222375012101	PILOT INST		HEEA0011669
	POWER SUPPLY IN	NOPERATIVE.							
HEEA	50034	BELL			WHELEN	POWER SUPPLY	FAILED		11/6/97
3340	45167	206L1				A490A	STROBE		HEEA0011812
	POWER SUPPLY N	O OUTPUT.							
HEEA	3904L	BELL			WHELEN	POWER SUPPLY	FAILED		11/6/97
3340	45597	206L1				A490ATSDF1428	STROBE		HEEA0011807
	STROBE WILL NO	T FLASH.							
HEEA	979BH	BELL			WHELEN	POWER SUPPLY	WEAK		11/6/97
3340	51403	206L3				A490A	STROBE LIGHT		HEEA0011802
	POWER SUPPLY V	VEAK POWER OUTPUT							
HEEA	8589X	BELL			WHELEN	POWER SUPPLY	FAILED		11/6/97
3340	51487	206L3				A413A	STROBE		HEEA0011808
	POWER SUPPLY IN	NOPERATIVE.							
HEEA	49EA	BELL			WHELEN	POWER SUPPLY	FAILED		11/6/97
3340	51507	206L3				A490A	STROBE		HEEA0011804
	STROBE WILL NO	T FLASH TUBE.							
HEEA	8592X	BELL			WHELEN	POWER SUPPLY	FAILED		11/6/97
3340	51508	206L3				A413AHDADF28V	STROBE		HEEA0011811
	POWER SUPPLY O	UTLET NR2 DOESN'T V	VORK NR1.						

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
HEEA	3116P	BELL			WHELEN	POWER SUPPLY	FAILED		11/6/97
3340	51530	206L3				A490ATSDF	STROBE		HEEA0011806
	STROBE LIGHT IN	OPERATIVE.							
HEEA	3207Q	BELL			WHELEN	POWER SUPPLY	FAILED		11/6/97
3340	51540	206L3				A490A	STROBE		HEEA0011805
	STROBE DOES NO	T FLASH.							
HEEA	53119	BELL			WHELEN	POWER SUPPLY	INOPERATIVE		11/6/97
3340	51575	206L3				A490A	STROBE LIGHT		HEEA0011803
	POWER SUPPLY IN	NOPERATIVE.							
HEEA	21240	BELL				INDICATOR	STICKS		10/22/97
3413	45647	206L1				206070278005	COCKPIT VSI		HEEA0011630
	NEEDLE STICKS A	ROUND 500 FEET GOI	NG UP.						
HEEA	515KA	BELL				INDICATOR	FAILED		11/7/97
3413	51048	206L3				212070239001	COCKPIT VSI		HEEA0011840
	RATE OF CLIMB II	NDICATOR FAILED. CA	ANNOT GET INDICAT	TOR TO ZERO.					
HEEA	45RP	BELL				INDICATOR	FLUCTUATES		11/5/97
3414	45521	206L1				8000	AIR SPEED		HEEA0011790
	AIR SPEED NEEDL	E FLUCTUATES IN FLI	GHT.						
HEEA	21240	BELL				ALTIMETER	ERROR		10/22/97
3416	45647	206L1				5934D1	COCKPIT		HEEA0011631
	ALTIMETER HAS I	EXCESSIVE CASE LEAF	KAGE AND FRICTION	ERROR.					
HEEA	21240	BELL				ALTIMETER	CORRODED		10/22/97
3416	45647	206L1				1330061	COCKPIT		HEEA0011638
	EXCESSIVE FRICT	TON ERROR AND CORI	RODED ON HOUSING						
HEEA	515KA	BELL				ALTIMETER	FAILED		11/7/97
3416	51048	206L3			RT220	4004437903	COCKPIT		HEEA0011848
	FAILED 1.1 ON SS	Γ ALTIMETER VALID L	IGHT DOES NOT STA	Y ON.					
HEEA	363BH	BELL				INDICATOR	INOPERATIVE		10/22/97
3424	51345	206L3				206070274005	COCKPIT T&B		HEEA0011704
	INDICATOR INOPI	ERATIVE.							
HEEA		BELL				RNAV	DEFECTIVE		11/5/97
3440		206L3				6223767001	COCKPIT		HEEA0011800
	RNAV BUTTON ST	TICKS.							
HEEA	5007Y	BELL				LONGERON	DEFECTIVE		10/31/97
5313	45192	206L1				206031314038S	FUSELAGE		HEEA0011733
	ANGLE OF BEND	ON LONGERON AFT EN	ND NOT CORRECT. O	RIGINAL PART 55 DI	EGREES. NEW PART	69 DEGREES.			

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
HEEA	3892R	BELL				PANEL ASSY	CORRODED		11/7/97
5320	45594	206L1				206033322003A	FUSELAGE		HEEA0011837
	PANEL ASSY COR	RODED AND SEPARATI	ED.						
HEEA	6160Y	BELL				SHELL ASSY	DENTED		10/22/97
5320	51609	206L3				206033100291A	FUSELAGE		HEEA0011687
	SHELL ASSY DEN	TED AND SEPARATED.	SENT TO HELICOME	INTERNATIONAL F	OR INSPECTION AN	D REPAIR.			
HEEA	5007Q	BELL				PANEL	CORRODED		10/22/97
5330	45187	206L1				206033201249	ROOF		HEEA0011686
	ROOF PANEL COR	RODED AND SEPARAT	ED.						
IEEA	1078C	BELL				STABILIZER ASSY	SEPARATED		11/7/97
5510	45392	206L1				206023119151	LT AFT		HEEA0011839
	STABILIZER ASSY	SEPARATED L/H AFT.							
HEEA	6603X	BELL				STABILIZER	DENTED	8218	10/22/97
510	51412	206L3				206023119151A	HORIZ		HEEA0011699
	STAB ASSY DENT	ED BEYOND LIMITS.							
IEEA	6161A	BELL				ELEVATOR ASSY	CORRODED		10/22/97
520	51611	206L3				206023119159	RT ELEV		HEEA0011634
320									
0320		ORRODED BEYOND LIM	IITS.						
5520		DRRODED BEYOND LIM BELL	IITS.			BEARING	DEFECTIVE		11/3/97
	RT ELEV ASSY CO		IITS.			BEARING 206011118001	DEFECTIVE M/R GRIP		11/3/97 97ZZZX4833
5220	RT ELEV ASSY CO 937R 51255 FOUR NEW M/R G ROLLER WAS MIS	BELL 206L3 RIP BEARINGS WERE R	ECEIVED FROM BEL ING HAD 7 ROLLERS	S THAT WOULD NOT			M/R GRIP NG WITH GREASE AND		97ZZZX4833 RING FOUND THAT ON
5220	RT ELEV ASSY CO 937R 51255 FOUR NEW M/R G ROLLER WAS MIS	BELL 206L3 RIP BEARINGS WERE R SING, A SECOND BEAR	ECEIVED FROM BEL ING HAD 7 ROLLERS	S THAT WOULD NOT		206011118001 O THEM PRIOR TO PACKIN	M/R GRIP NG WITH GREASE AND		97ZZZX4833 RING FOUND THAT ON
220 ****	RT ELEV ASSY CO 937R 51255 FOUR NEW M/R G ROLLER WAS MIS PARTS PRIOR TO D	BELL 206L3 RIP BEARINGS WERE R SING, A SECOND BEAR INSTALLING EVEN THO	ECEIVED FROM BEL ING HAD 7 ROLLERS	S THAT WOULD NOT		206011118001 O THEM PRIOR TO PACKIN E (APPROXIMATELY 1 INC	M/R GRIP IG WITH GREASE AND H SPAN). THIS SHOWS	THE IMPORT	97ZZZX4833 RING FOUND THAT ON ANCE OF INSPECTING
220 ****	RT ELEV ASSY CO 937R 51255 FOUR NEW M/R G ROLLER WAS MIS PARTS PRIOR TO D 374M 4161	BELL 206L3 RIP BEARINGS WERE R SING, A SECOND BEAR INSTALLING EVEN THO BELL	ECEIVED FROM BEL LING HAD 7 ROLLERS DUGH THEY ARE NE	S THAT WOULD NOT W.		206011118001 O THEM PRIOR TO PACKIN E (APPROXIMATELY 1 INC BEARING	M/R GRIP IG WITH GREASE AND H SPAN). THIS SHOWS FAILED	THE IMPORT	97ZZZX4833 RING FOUND THAT ON CANCE OF INSPECTING 10/23/97
5220 **** IFR 5230	RT ELEV ASSY CO 937R 51255 FOUR NEW M/R G ROLLER WAS MIS PARTS PRIOR TO D 374M 4161	BELL 206L3 RIP BEARINGS WERE R SING, A SECOND BEAR INSTALLING EVEN THO BELL 206B3	ECEIVED FROM BEL LING HAD 7 ROLLERS DUGH THEY ARE NE	S THAT WOULD NOT W.		206011118001 O THEM PRIOR TO PACKIN E (APPROXIMATELY 1 INC BEARING	M/R GRIP IG WITH GREASE AND H SPAN). THIS SHOWS FAILED	THE IMPORT	97ZZZX4833 RING FOUND THAT ON CANCE OF INSPECTING 10/23/97
5220 ***** IFR 5230 HEEA	RT ELEV ASSY CO 937R 51255 FOUR NEW M/R G ROLLER WAS MIS PARTS PRIOR TO D 374M 4161 FOUND M/R MAST	BELL 206L3 RIP BEARINGS WERE R SING, A SECOND BEAR INSTALLING EVEN THO BELL 206B3 T BEARING INNER RACI	ECEIVED FROM BEL LING HAD 7 ROLLERS DUGH THEY ARE NE	S THAT WOULD NOT W.		206011118001 O THEM PRIOR TO PACKIN E (APPROXIMATELY 1 INC BEARING 206010443001	M/R GRIP RG WITH GREASE AND H SPAN). THIS SHOWS FAILED M/R MAST	THE IMPORT	97ZZZX4833 RING FOUND THAT ON CANCE OF INSPECTING 10/23/97 97ZZZX4777
5220 ***** IFR 5230 HEEA	RT ELEV ASSY CO 937R 51255 FOUR NEW M/R G ROLLER WAS MIS PARTS PRIOR TO D 374M 4161 FOUND M/R MAST 2770Y	BELL 206L3 RIP BEARINGS WERE R SING, A SECOND BEAR INSTALLING EVEN THO BELL 206B3 T BEARING INNER RACI BELL 206L1	ECEIVED FROM BEL LING HAD 7 ROLLERS DUGH THEY ARE NE	S THAT WOULD NOT W.		206011118001 D THEM PRIOR TO PACKINE (APPROXIMATELY 1 INC BEARING 206010443001 INDICATOR	M/R GRIP IG WITH GREASE AND H SPAN). THIS SHOWS FAILED M/R MAST FAILED	THE IMPORT	97ZZZX4833 RING FOUND THAT ON CANCE OF INSPECTING  10/23/97 97ZZZX4777  11/5/97
5220 ***** IFR 5230 HEEA	RT ELEV ASSY CO 937R 51255 FOUR NEW M/R G ROLLER WAS MIS PARTS PRIOR TO D 374M 4161 FOUND M/R MAST 2770Y 45291	BELL 206L3 RIP BEARINGS WERE R SING, A SECOND BEAR INSTALLING EVEN THO BELL 206B3 T BEARING INNER RACI BELL 206L1	ECEIVED FROM BEL LING HAD 7 ROLLERS DUGH THEY ARE NE	S THAT WOULD NOT W.		206011118001 D THEM PRIOR TO PACKINE (APPROXIMATELY 1 INC BEARING 206010443001 INDICATOR	M/R GRIP IG WITH GREASE AND H SPAN). THIS SHOWS FAILED M/R MAST FAILED	THE IMPORT	97ZZZX4833 RING FOUND THAT ON CANCE OF INSPECTING  10/23/97 97ZZZX4777  11/5/97
5220 ***** IFR 5230 HEEA 5240	RT ELEV ASSY CO 937R 51255 FOUR NEW M/R G ROLLER WAS MIS PARTS PRIOR TO D 374M 4161 FOUND M/R MAST 2770Y 45291 DUAL TACH HAS S	BELL 206L3 RIP BEARINGS WERE R SING, A SECOND BEAR INSTALLING EVEN THO BELL 206B3 F BEARING INNER RACI BELL 206L1 SPLIT NEEDLES.	ECEIVED FROM BEL LING HAD 7 ROLLERS DUGH THEY ARE NE	S THAT WOULD NOT W.		206011118001 D THEM PRIOR TO PACKIN E (APPROXIMATELY 1 INC BEARING 206010443001  INDICATOR 206070265101	M/R GRIP RG WITH GREASE AND H SPAN). THIS SHOWS FAILED M/R MAST FAILED DUAL TACH	THE IMPORT	97ZZZX4833 RING FOUND THAT ON CANCE OF INSPECTING  10/23/97 97ZZZX4777  11/5/97 HEEA0011781
220 **** IFR 230 IEEA 240	RT ELEV ASSY CO 937R 51255 FOUR NEW M/R G ROLLER WAS MIS PARTS PRIOR TO D 374M 4161 FOUND M/R MAST 2770Y 45291 DUAL TACH HAS: 55TV 3788 SPLINES SEVEREI	BELL 206L3 RIP BEARINGS WERE R SING, A SECOND BEAR INSTALLING EVEN THO BELL 206B3 T BEARING INNER RACI BELL 206L1 SPLIT NEEDLES. BELL 206B3 LY WORN AND 3 CRACI	ECEIVED FROM BELLING HAD 7 ROLLERS DUGH THEY ARE NEVEL BREAKING DOWN.	S THAT WOULD NOT W. SE DUE TO LENGTH (	ROLL IN THE CAGE  206040002029 DE CALENDAR TIME	206011118001 D THEM PRIOR TO PACKING (APPROXIMATELY 1 INC BEARING 206010443001  INDICATOR 206070265101  SUNGEAR	M/R GRIP GG WITH GREASE AND H SPAN). THIS SHOWS  FAILED M/R MAST  FAILED DUAL TACH  WORN TRANSMISSION G A BREAK DOWN OF T	193 2998 THE LUBRICA	97ZZZX4833 RING FOUND THAT ON FANCE OF INSPECTING  10/23/97 97ZZZX4777  11/5/97 HEEA0011781  10/28/97 97ZZZX4822
220 ****  IFR 230  IEEA 240  320 ****	RT ELEV ASSY CO 937R 51255 FOUR NEW M/R G ROLLER WAS MIS PARTS PRIOR TO D 374M 4161 FOUND M/R MAST 2770Y 45291 DUAL TACH HAS: 55TV 3788 SPLINES SEVEREI	BELL 206L3 RIP BEARINGS WERE R SING, A SECOND BEAR INSTALLING EVEN THO BELL 206B3 T BEARING INNER RACI BELL 206L1 SPLIT NEEDLES. BELL 206B3 LY WORN AND 3 CRACI	ECEIVED FROM BELLING HAD 7 ROLLERS DUGH THEY ARE NEVEL BREAKING DOWN.	S THAT WOULD NOT W. SE DUE TO LENGTH (	ROLL IN THE CAGE  206040002029 DE CALENDAR TIME	206011118001 D THEM PRIOR TO PACKING (APPROXIMATELY 1 INC BEARING 206010443001  INDICATOR 206070265101  SUNGEAR 20604562101 E INSTALLED INDICATING	M/R GRIP GG WITH GREASE AND H SPAN). THIS SHOWS  FAILED M/R MAST  FAILED DUAL TACH  WORN TRANSMISSION G A BREAK DOWN OF T	193 2998 THE LUBRICA	97ZZZX4833 RING FOUND THAT ON FANCE OF INSPECTING  10/23/97 97ZZZX4777  11/5/97 HEEA0011781  10/28/97 97ZZZX4822
5220 *****  IFR 5230  HEEA 5240  5320 *****	RT ELEV ASSY CO 937R 51255 FOUR NEW M/R G ROLLER WAS MIS PARTS PRIOR TO D 374M 4161 FOUND M/R MAST 2770Y 45291 DUAL TACH HAS S 55TV 3788 SPLINES SEVEREL INSTALLATION W	BELL 206L3 RIP BEARINGS WERE R SING, A SECOND BEAR INSTALLING EVEN THO BELL 206B3 T BEARING INNER RACI BELL 206L1 SPLIT NEEDLES. BELL 206B3 LY WORN AND 3 CRACH YAS 13 YEARS. SUBMIT	ECEIVED FROM BELLING HAD 7 ROLLERS DUGH THEY ARE NEVEL BREAKING DOWN.	S THAT WOULD NOT W. SE DUE TO LENGTH (	ROLL IN THE CAGE  206040002029 DE CALENDAR TIME	206011118001 D THEM PRIOR TO PACKING E (APPROXIMATELY 1 INC BEARING 206010443001  INDICATOR 206070265101  SUNGEAR 20604562101 E INSTALLED INDICATING AS WELL AS THE EXISTIN	M/R GRIP G WITH GREASE AND H SPAN). THIS SHOWS  FAILED M/R MAST  FAILED DUAL TACH  WORN TRANSMISSION G A BREAK DOWN OF TIG HOURLY FREQUENCY	193 2998 THE LUBRICA	97ZZZX4833 RING FOUND THAT ON CANCE OF INSPECTING  10/23/97 97ZZZX4777  11/5/97 HEEA0011781  10/28/97 97ZZZX4822 NT. PERIOD OF
5220 *****  IFR 5230  HEEA 5240  5320 *****	RT ELEV ASSY CO 937R 51255 FOUR NEW M/R G ROLLER WAS MIS PARTS PRIOR TO D 374M 4161 FOUND M/R MAST 2770Y 45291 DUAL TACH HAS: 55TV 3788 SPLINES SEVEREL INSTALLATION W 5014V 45217	BELL 206L3 RIP BEARINGS WERE R SING, A SECOND BEAR INSTALLING EVEN THO BELL 206B3 T BEARING INNER RACI BELL 206L1 SPLIT NEEDLES. BELL 206B3 LY WORN AND 3 CRACH VAS 13 YEARS. SUBMIT	ECEIVED FROM BELLING HAD 7 ROLLERS DUGH THEY ARE NEVEL BREAKING DOWN.  KED. SUSPECT CAUSTER RECOMMENDS	S THAT WOULD NOT W. SE DUE TO LENGTH (	ROLL IN THE CAGE  206040002029 DE CALENDAR TIME	206011118001 D THEM PRIOR TO PACKING E (APPROXIMATELY 1 INC BEARING 206010443001  INDICATOR 206070265101  SUNGEAR 20604562101 E INSTALLED INDICATING AS WELL AS THE EXISTIN	M/R GRIP G WITH GREASE AND H SPAN). THIS SHOWS  FAILED M/R MAST  FAILED DUAL TACH  WORN TRANSMISSION G A BREAK DOWN OF TIG HOURLY FREQUENCY	193 2998 THE LUBRICA	97ZZZX4833 RING FOUND THAT ON CANCE OF INSPECTING  10/23/97 97ZZZX4777  11/5/97 HEEA0011781  10/28/97 97ZZZX4822 NT. PERIOD OF  10/22/97
5220 *****  IIFR 5230  HEEA 5320  *****  HEEA	RT ELEV ASSY CO 937R 51255 FOUR NEW M/R G ROLLER WAS MIS PARTS PRIOR TO D 374M 4161 FOUND M/R MAST 2770Y 45291 DUAL TACH HAS: 55TV 3788 SPLINES SEVEREL INSTALLATION W 5014V 45217	BELL 206L3 RIP BEARINGS WERE R SING, A SECOND BEAR INSTALLING EVEN THO BELL 206B3 T BEARING INNER RACI BELL 206L1 SPLIT NEEDLES. BELL 206B3 LY WORN AND 3 CRACH VAS 13 YEARS. SUBMIT BELL 206L1	ECEIVED FROM BELLING HAD 7 ROLLERS DUGH THEY ARE NEVEL BREAKING DOWN.  KED. SUSPECT CAUSTER RECOMMENDS	S THAT WOULD NOT W. SE DUE TO LENGTH (	ROLL IN THE CAGE  206040002029 DE CALENDAR TIME	206011118001 D THEM PRIOR TO PACKING E (APPROXIMATELY 1 INC BEARING 206010443001  INDICATOR 206070265101  SUNGEAR 20604562101 E INSTALLED INDICATING AS WELL AS THE EXISTIN	M/R GRIP G WITH GREASE AND H SPAN). THIS SHOWS  FAILED M/R MAST  FAILED DUAL TACH  WORN TRANSMISSION G A BREAK DOWN OF TIG HOURLY FREQUENCY	193 2998 THE LUBRICA	97ZZZX4833 RING FOUND THAT ON CANCE OF INSPECTING  10/23/97 97ZZZX4777  11/5/97 HEEA0011781  10/28/97 97ZZZX4822 NT. PERIOD OF  10/22/97
5220 *****  IFR 5230  HEEA 5240  5320  *****  HEEA 5330	RT ELEV ASSY CO 937R 51255 FOUR NEW M/R G ROLLER WAS MIS PARTS PRIOR TO D 374M 4161 FOUND M/R MAST 2770Y 45291 DUAL TACH HAS S 55TV 3788 SPLINES SEVEREL INSTALLATION W 5014V 45217 XMSN RESTRAINT	BELL 206L3 RIP BEARINGS WERE R SING, A SECOND BEAR INSTALLING EVEN THO BELL 206B3 T BEARING INNER RACI BELL 206L1 SPLIT NEEDLES. BELL 206B3 LY WORN AND 3 CRACH VAS 13 YEARS. SUBMIT BELL 206L1 T BOTH BEARINGS WOI	ECEIVED FROM BELLING HAD 7 ROLLERS DUGH THEY ARE NEVEL BREAKING DOWN.  KED. SUSPECT CAUSTER RECOMMENDS	S THAT WOULD NOT W. SE DUE TO LENGTH (	ROLL IN THE CAGE  206040002029 DE CALENDAR TIME	206011118001 D THEM PRIOR TO PACKING (APPROXIMATELY 1 INC BEARING 206010443001  INDICATOR 206070265101  SUNGEAR 20604562101 E INSTALLED INDICATING AS WELL AS THE EXISTIN RESTRAINT 206033506101	M/R GRIP GG WITH GREASE AND H SPAN). THIS SHOWS  FAILED M/R MAST  FAILED DUAL TACH  WORN TRANSMISSION G A BREAK DOWN OF TI IG HOURLY FREQUENCY WORN XMSN	193 2998 THE LUBRICA	97ZZZX4833 RING FOUND THAT ON CANCE OF INSPECTING  10/23/97 97ZZZX4777  11/5/97 HEEA0011781  10/28/97 97ZZZX4822 NT. PERIOD OF  10/22/97 HEEA0011657

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
HEEA	1073W	BELL				FLEXURE	CORRODED		11/7/97
6330	45386	206L1				206033516101	M/R GR BOX		HEEA0011841
	FLEXURE CORRO	DED RUBBER.							
HEEA	6160Z	BELL				STOP ASSY	DETERIORATED		10/22/97
5330	51610	206L3				206033518007	M/R XMSN		HEEA0011636
	STOP ASSY RUBB	ER DETERIORATED.							
HEEA	513EH	BELL				ACTUATOR	FAILED		10/22/97
5710	45421	206L1				206062721109	M/R		HEEA0011661
	ACTUATOR WILL	NOT ACTUATE.							
HEEA	5744Y	BELL				ACTUATOR	FAILED		11/5/97
5710	45465	206L1				206062721103	M/R CONTROL		HEEA0011771
	ACTUATOR WILL	NOT RETRACT OR EXT	TEND.						
HEEA	2251Z	BELL				ACTUATOR	FAILED		10/22/97
5710	45756	206L1				206062721109	M/R		HEEA0011707
	ACTUATOR DOES	NOT MOVE IN OR OUT							
	37488	BELL	ALLSN			BLEED VALVE	STICKING		10/16/97
532	2188	206B	250C20			23053176	ENGINE	447	97ZZZX4810
		TLY IS STICKING IN TH INSHOT TYPE SOUNDS				R DEMAND IS DECREASEI	D. THIS CREATES A MO	MENTARY C	OMPRESSOR STALL
HEEA		BELL				INDICATOR	STICKS		10/22/97
7714		206L1				206070266009	TACH		HEEA0011641
	INDICATOR NEED								
		LE STICKS INTERMITT	ENTLY.						
HEEA	5006F	LE STICKS INTERMITT BELL	ENTLY.			TACH GEN	WORN		10/22/97
			ENTLY.			TACH GEN 206076373001	WORN ENGINE		10/22/97 HEEA0011703
	5006F 45181	BELL		/HEN TURNED.					
7714	5006F 45181	BELL 206L1		HEN TURNED.					
7714 HEEA	5006F 45181 TACH GEN WORN	BELL 206L1 . SHAFT LOOSE AT LA		/HEN TURNED.		206076373001	ENGINE		HEEA0011703
7714 HEEA	5006F 45181 TACH GEN WORN 2759U	BELL 206L1 . SHAFT LOOSE AT LA BELL 206L1		/HEN TURNED.		206076373001 INDICATOR	ENGINE DEFECTIVE		HEEA0011703
7714 HEEA 7722	5006F 45181 TACH GEN WORN 2759U 45267	BELL 206L1 . SHAFT LOOSE AT LA BELL 206L1		HEN TURNED.		206076373001 INDICATOR	ENGINE DEFECTIVE		HEEA0011703
7714 HEEA 7722 HEEA	5006F 45181 TACH GEN WORN 2759U 45267 BEZEL LOOSE FRO	BELL 206L1 . SHAFT LOOSE AT LA BELL 206L1 DM GAUGE.		HEN TURNED.		206076373001 INDICATOR 206075188005	ENGINE  DEFECTIVE  COCKPIT		HEEA0011703 10/22/97 HEEA0011668
7714 HEEA 7722 HEEA	5006F 45181 TACH GEN WORN 2759U 45267 BEZEL LOOSE FRO 513EH 45421	BELL 206L1 . SHAFT LOOSE AT LA BELL 206L1 DM GAUGE. BELL	RGE END, CLICKS W	HEN TURNED.		206076373001 INDICATOR 206075188005 INDICATOR	DEFECTIVE COCKPIT DEFECTIVE		HEEA0011703 10/22/97 HEEA0011668 10/22/97
HEEA 7722 HEEA 7722	5006F 45181 TACH GEN WORN 2759U 45267 BEZEL LOOSE FRO 513EH 45421	BELL 206L1 . SHAFT LOOSE AT LA BELL 206L1 DM GAUGE. BELL 206L1	RGE END, CLICKS W	HEN TURNED.		206076373001 INDICATOR 206075188005 INDICATOR	DEFECTIVE COCKPIT DEFECTIVE		HEEA0011703 10/22/97 HEEA0011668 10/22/97
HEEA 7722 HEEA 7722 HEEA	5006F 45181 TACH GEN WORN 2759U 45267 BEZEL LOOSE FRO 513EH 45421 TOT INDICATOR F	BELL 206L1 . SHAFT LOOSE AT LA BELL 206L1 DM GAUGE. BELL 206L1 READS 10 DEGREES HIG	RGE END, CLICKS W	HEN TURNED.		206076373001  INDICATOR 206075188005  INDICATOR 35712519129	DEFECTIVE COCKPIT  DEFECTIVE COCKPIT TOT		HEEA0011703 10/22/97 HEEA0011668 10/22/97 HEEA0011633
HEEA 7722 HEEA 7722	5006F 45181 TACH GEN WORN 2759U 45267 BEZEL LOOSE FRO 513EH 45421 TOT INDICATOR F 3108E 51498	BELL 206L1 . SHAFT LOOSE AT LA BELL 206L1 DM GAUGE. BELL 206L1 READS 10 DEGREES HIG	RGE END, CLICKS W	HEN TURNED.		206076373001  INDICATOR 206075188005  INDICATOR 35712519129  INDICATOR	DEFECTIVE COCKPIT  DEFECTIVE COCKPIT TOT  FAILED		HEEA0011703  10/22/97  HEEA0011668  10/22/97  HEEA0011633
HEEA 7722 HEEA 7722 HEEA 7722	5006F 45181 TACH GEN WORN 2759U 45267 BEZEL LOOSE FRO 513EH 45421 TOT INDICATOR F 3108E 51498	BELL 206L1 . SHAFT LOOSE AT LA BELL 206L1 DM GAUGE. BELL 206L1 READS 10 DEGREES HIG BELL 206L3	RGE END, CLICKS W	HEN TURNED.		206076373001  INDICATOR 206075188005  INDICATOR 35712519129  INDICATOR	DEFECTIVE COCKPIT  DEFECTIVE COCKPIT TOT  FAILED		HEEA0011703  10/22/97  HEEA0011668  10/22/97  HEEA0011633
HEEA 7714 HEEA 7722 HEEA 7722 HEEA 7722 HEEA 7722	5006F 45181 TACH GEN WORN 2759U 45267 BEZEL LOOSE FRO 513EH 45421 TOT INDICATOR F 3108E 51498 TOT NEEDLES WI	BELL 206L1 . SHAFT LOOSE AT LA BELL 206L1 DM GAUGE. BELL 206L1 READS 10 DEGREES HIG BELL 206L3 LL NOT INDICATE.	RGE END, CLICKS W	HEN TURNED.		206076373001  INDICATOR 206075188005  INDICATOR 35712519129  INDICATOR 206375007103	DEFECTIVE COCKPIT  DEFECTIVE COCKPIT TOT  FAILED ENG TOT		HEEA0011703  10/22/97  HEEA0011668  10/22/97  HEEA0011633  10/22/97  HEEA0011667

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
HEEA	5736J	BELL				TRANSMITTER	ERRATIC		10/22/97
2840	31140	212				APTE138100G	FUEL PRESS		HEEA0011680
	PRESSURE TRANS	SMITTER TRANSMITS E	ERRATIC.						
HEEA	1082G	BELL				INDICATOR	STICKS		10/22/97
2930	31109	212				124043	HYD SYS		HEEA0011691
	HYD PRESS TEMP	. NEEDLE STICKING.							
HEEA	27805	BELL				FLOAT BAG	UNBONDED		10/22/97
3212	31106	212				212050207012	FWD RT		HEEA0011662
	FLOAT BAG UNBO	ONDED INLET VALVE.							
HEEA	27805	BELL				FLOAT BAG	LEAKING		10/22/97
3212	31106	212				212050207103	FWD LT		HEEA0011663
	FLOAT BAG LEAK	ING INLET VALVES.							
HEEA	27805	BELL				CAP ASSY	DEFECTIVE		10/22/97
3213	31106	212				212030437007	SKID AFT		HEEA0011656
	CAP ASSY RUBBE	R CAME OFF.							
HEEA	102PH	BELL				COMPENSATOR	SHORTED		10/22/97
3423	30899	212				2593379001	COMPASS		HEEA0011695
	COMPENSATOR S	HORTED OUT INTERNA	ALLY.						
HEEA	27805	BELL				PANEL ASSY	DAMAGED		10/22/97
5330	31106	212				212030378003	CROSSTUBE AREA		HEEA0011682
	PANEL ASSY BEN	T AND CRACKED AT C	ROSSTUBE AREA.						
HEEA	27805	BELL				DAMPER ASSY	LEAKING		11/5/97
6220	31106	212				204010937009	M/R		HEEA0011785
	DAMPER ASSY HA	AS NO DAMPENING AC	TION AND LEAKING.						
HEEA	27805	BELL				DAMPER ASSY	DEFECTIVE		11/5/97
6220	31106	212				204010937009	M/R		HEEA0011784
	DAMPER ASSY HA	AS NO DAMPENING AC	TION AND LEAKING.						
HEEA	1079U	BELL				DAMPER	WORN		10/22/97
6220	31122	212				204031920003	M/R		HEEA0011722
	DAMPER BEARING	GS WORN.							
HEEA	6957Y	BELL				SENSOR ALTITUDE	FAILED		10/22/97
2212	28139	214ST				222305005101	AUTO FLT		HEEA0011648
	AIRCRAFT DIVES	WHEN ALT HOLD ENG	AGED.						
HEEA	6957Y	BELL				RELAY	OPEN		11/7/97
2430	28139	214ST				214175132103	BATTERY		HEEA0011843
	24V TO BATT NR2	CONTACT OPEN.							

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
HEEA	8045T	BELL				CHARGER	FAILED		11/5/97
2432	28101	214ST				214175379103	BATTERY		HEEA0011772
	BATTERY CHARG	ER WILL NOT TOP CHA	ARGE.						
HEEA	8045T	BELL				CHARGER	FAILED		10/22/97
2432	28101	214ST				214175379103	BATTERY		HEEA0011679
	CHARGER NOT TO	OP CHARGING BATTER	RY.						
HEEA	8045T	BELL				STARTER	FAILED	1691	10/29/97
2435	28101	214ST				214060056103	ENGINE		HEEA0011727
	STARTER WORN I	BRUSHES AND CLUTCE	H HOUSING IS CRAC	KED.					
HEEA	5748M	BELL				STARTER	FAILED	1295	10/22/97
2435	28102	214ST				214060056103	ENGINE		HEEA0011724
	STARTER ENGAG	E LIGHT COMES ON BU	UT STARTER WILL N	OT ENERGIZE.					
HEEA	3897N	BELL				STARTER	FAILED		10/29/97
2435	28106	214ST				214060056103	ENGINE		HEEA0011728
	STARTER WILL NO	OT SHUT OFF.							
HEEA	6957Y	BELL				STARTER	FAILED	1531	10/22/97
2435	28139	214ST				214060056103	ENGINE		HEEA0011683
	STARTER KICKS O	GENERATOR OFF ON S	TART UP.						
HEEA	8045T	BELL				PUMP	FAILED		10/22/97
2913	28101	214ST				214076334105	HYD SYS		HEEA0011670
	LOSS OF UTILITY	HYD SYSTEM PRESSU	RE IN FLIGHT.						
HEEA	6957Y	BELL				CLOCK	INTERMITTENT		10/22/97
3120	28139	214ST				212075514001	COCKPIT		HEEA0011688
	CLOCK INTERMIT	TENT.							
HEEA	5748M	BELL				GYROSCOPE	FAILED		10/22/97
3421	28102	214ST				214175241101	COCKPIT		HEEA0011673
	AIRCRAFT PORPO	ISES ROLLS SIDE TO S	IDE.						
HEEA	6957Y	BELL				GYROSCOPE	DEFECTIVE		10/22/97
3421	28139	214ST				214175241101	COCKPIT ATTITU	JDE	HEEA0011672
	GYRO SLOW TO R	ESPOND.							
HEEA	3897N	BELL				DETECTOR	FAILED		10/22/97
6240	28106	214ST				214074280105	M/R RPM		HEEA0011646
	RPM DETECTOR II	NOPERATIVE.							
HEEA	5748M	BELL				TORSION ARM	CRACKED		11/5/97
6330	28102	214ST				214031614125	M/R XMSN		HEEA0011766
	TORSION ARM AS	SY RUBBER CRACKED	).						

**ENG MAKE** 

**ENG MDL** 

LYC

LTS101750C1

ACFT MAKE

ACFT MODEL

BELL

214ST

BELL

214ST

BELL

222U

**BELL** 

**BELL** 

BELL

BELL

BELL

BELL

BELL

**BELL** 

BELL

407

407

407

407

407

ROTOR BRAKE PUCK SEPARATED.

ROTOR BRAKE PUCK MISSING.

REPLACE SEAL AND PACKINGS.

BIPOD MOUNT WORN BEARINGS.

407

POWER SUPPLY INOPERATIVE. NO POWER OUTPUT.

407

230

230

REPLACED CRACKED PY LINE AT FUEL CONTROL UNIT.

MAST POLE ASSY CORRODED AND ALSO TOP SPLINE RUSTY AND WORN.

REMOVED. (BALL ASSY IS WORN AND LEVER HARDWARE IS RUSTY)

TORSION ARM BEARINGS TORN.

ATA

**OPER** 

HEEA

6330

HEEA

6420

NXTA

7320

HEEA

6230

**HEEA** 

6230

HEEA

3340

HEEA

6320

HEEA

6321

HEEA

6321

HEEA

6420

**HEEA** 

6520

HEEA

7120

REG. NO

59805

28141

5748M

28102

142CF

47531

230UN

23009

230UN

23009

407PH

53003

437PH

53072

427PH

53059

407MM

53060

57416

53070

447PH

53114

417PH

53038

SEAL ASSY LEAKING.

**SERIAL NO** 

DEFECTIVE

T/R GR BOX

WORN

**ENGINE** 

701

**SEAL** 

406040453101

BIPOD MOUNT

407060111101

406040400115

11/4/97

10/31/97

HEEA0011761

HEEA0011753

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HEEA	407MM	BELL				INDICATOR	FAILED		10/31/97
7712	53060	407				407375003107	ENG TORQUE		HEEA0011740
	TORQUE INDICAT	OR SHOWS NO DISPLA	Y.						
HEEA	402PH	BELL				INDICATOR	FAILED	194	10/31/97
7714	53159	407				407375002103	ENG NG		HEEA0011743
	NG INDICATOR FA	AILED. ROM, RAM, AN	D FEPROM FAILURE	HAS BEEN DETECTE	D.				
HEEA	402PH	BELL				INDICATOR	FAILED	194	10/31/97
7933	53159	407				407375005101	OIL PRESS/TEMP		HEEA0011757
	OIL PRESSURE/TE	MP DROPS TO ZERO IN	TERMITTENTLY, W	ILL NOT COME BACK	ON LINE WHEN CI	RCUIT BREAKER IS CYCLE	D.		
HEEA	1202T	BELL				TARSYN	DEFECTIVE		11/7/97
2210	33112	412				2593996333	COCKPIT		HEEA0011828
	TARSYN DOES NO	T STABILIZE. FAILED	TEST 3.1 ON SST BE	NCH.					
HEEA	6559Z	BELL				TARSYN	FAILED		11/7/97
2210	36019	412				2593996333	COCKPIT DG		HEEA0011827
	DIRECTIONAL GY	RO WILL NOT TURN C	OMPASS CARD ON H	ISI AND OFF FLAG W	ILL NOT PULL ON H	ISI.			
HEEA	2014K	BELL				COMPUTER	FAILED		10/22/97
2211	33020	412				4025008918	AFCS		HEEA0011650
	AFCS COMPUTER	FAILED 31.2 AND FOLI	LOWING TEST ON SS	T.					
HEEA	293CA	BELL				INVERTER	FAILED		11/5/97
2422		412				412075101101	AC SYS		HEEA0011777
	INVERTER WILL N	NOT COME ON LINE UN	ILESS BOTH GENERA	ATORS ARE ON LINE.					
HEEA	2298Z	BELL				BATTERY	DEFECTIVE	1833	11/7/97
2432	33077	412				39563001	DC SYS		HEEA0011849
	BATTERY PACK V	VILL NOT PASS CAPAC	ITY TEST.						
HEEA	6559Z	BELL				BATTERY	FAILED	3353	11/7/97
2432	36019	412				39563001	DC SYS		HEEA0011850
	BATTERY PACK W	VILL NOT ACCEPT CHA	RGE.						
HEEA	5759N	BELL			NARCO	ELT	MALFUNCTIONEL	)	10/22/97
2562	33002	412				ELT910	COCKPIT		HEEA0011674
	ELT GOES OFF IN	TERMITTENTLY.							
HEEA	1202T	BELL				BOOST PUMP	DEFECTIVE		10/22/97
2822	33112	412				1C641	FUEL SYS		HEEA0011721
	BOOST PUMP LOV	V PRESSURE.							
HEEA	3893N	BELL				PRESSURE SWITCH	FAILED		10/22/97
2840	33010	412				1103P0553	AUX TANK		HEEA0011684
	AUX. TANK TRAN	SFER PUMP SHUTS OF	F AT VARIOUS FUEL	LEVELS. SEN					

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HEEA	293CA	BELL				INDICATOR	DEFECTIVE		10/22/97
2844		412				124044	FUEL PRESS		HEEA0011676
	FUEL PRESS INDI	CATOR READS LOW OU	JT OF TOLERANCE.						
HEEA		BELL				FLOAT BAG ASSY	DEFECTIVE		11/5/97
3212		412				412050013115	EMERG FLOAT		HEEA0011799
	FLOAT BAG STRII	P RELEASE VALVE HOL	DER - BROKEN PIN (	ON INLET VALVE. CF	RACKED TOP OFF O	F VALVE FLANGE.			
HEEA	22608	BELL				FLOAT BAG	RUPTURED		10/22/97
3212	33075	412				412050013119	EMERG FLOATS		HEEA0011665
	FLOAT BAG RUPT	TURED.							
HEEA	293CA	BELL				CAP ASSY FWD	WORN		10/22/97
3213		412				212030436007	FWD SKID		HEEA0011635
	FWD CAP ASSY R	UBBER DETERIORATEI	D AND WORN.						
HEEA	3893N	BELL				CAP ASSY	WORN		10/22/97
3213	33010	412				212030436007	CROSSTUBE FWD		HEEA0011702
	CAP ASSY RUBBE	ER WORN AND CRACKE	D.						
HEEA	3893N	BELL				CAP ASSY	WORN		11/7/97
3213	33010	412				212030436007	SKID TUBE FWD		HEEA0011833
	CAP ASSY FWD W	ORN RUBBER.							
HEEA	21498	BELL				CAP ASSY	WORN		10/22/97
3213	36003	412				412030437103	SKID AFT		HEEA0011655
	CAP ASSY AFT W	ORN AND DETERIORAT	ΓED.						
HEEA	21498	BELL				CAP ASSY	DETERIORATED		10/22/97
3213	36003	412				412030437103	CROSSTUBE AFT		HEEA0011701
	CAP ASSY AFT RU	JBBER DETERIORATED	).						
HEEA	22347	BELL				CAP ASSY	WORN		11/7/97
3213	36005	412				412030437103	SKID TUBE AFT		HEEA0011831
	CAP ASSY AFT W	ORN RUBBER.							
HEEA	6559Z	BELL				CAP ASSY	WORN		10/22/97
3213	36019	412				412030437103	SKID AFT		HEEA0011654
	CAP ASSY WORN	AND DETERIORATED.							
HEEA	108X	BELL				INDICATOR	DEFECTIVE		10/22/97
3414	33115	412				412075009105	AIR SPEED		HEEA0011690
	AIR SPEED INDIC.	ATOR READS LOW APP	ROXIMATELY 15 MP	PH.					
HEEA	2149S	BELL				ENCODER	FAILED		11/5/97
3416	36002	412				066306401	COCKPIT ALT		HEEA0011774
		ATES HIGH OUT OF TOI	ERANCE ON HIGH E	END					

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
HEEA	2149S	BELL				ALTIMETER	DEFECTIVE		10/22/97
3416	36002	412				1003511326	COCKPIT		HEEA0011642
	ALTIMETER HAS	LOOSE PARTS INSIDE.							
HEEA	22347	BELL				ENCODER	FAILED		10/22/97
3416	36005	412				8800	ALTIMETER		HEEA0011651
	ENCODER DOES N	NOT SUPPLY ANY ALTI	TUDE READINGS TO	TEST BOX.					
HEEA	22347	BELL				GYRO	DEFECTIVE		11/5/97
3420	36005	412				4020936903	3 AXIS GYRO		HEEA0011786
	3 AXIS GYRO ERE	CTS FASTER THAN OT	HER INSTALLED TAI	RSYN.					
HEEA	1202T	BELL				INDICATOR	FAILED		11/10/97
3421	33112	412				222375033103	COCKPIT ATTITUD	E	HEEA0011851
	ATTITUDE INDICA	ATOR WON'T STAY ERI	ECT IN AIRCRAFT. T	TME SINCE REPAIR 7	7:05.				
HEEA	107X	BELL				INDICATOR	FAILED		11/5/97
3421	33113	412				222375033103	COCKPIT ATTITUD	E	HEEA0011787
	ATTITUDE INDICA	ATOR INOPERATIVE.							
HEEA	107X	BELL				TRANSPONDER	FAILED		10/22/97
3444	33113	412				7001840913	RADIO ALT		HEEA0011706
	FAILED TEST 5.2 (	ON SST AND HAS LOW	OUTPUT. SENT TO H	ONEYWELL, TEXAS	FOR INSPECTION A	ND REPAIR.			
HEEA	2148K	BELL			GARMIN	GPS165	DEFECTIVE		11/10/97
3457	36001	412				0110010600	COCKPIT GPS		HEEA0011853
	GPS INTERNAL BA	ATTERY NEEDS REPLA	CEMENT. FOUND M	ESSAGE TO DISPLAY	"EXTERNAL BATTI	ERY OVERTEMP".			
HEEA	2258F	BELL				ACTUATOR	BROKEN		11/7/97
5260	33073	412				212075418105	STEP		HEEA0011816
	STEP ACTUATOR	ROD END BROKEN AN	D MOTOR WILL NOT	TURN.					
HEEA	141PH	BELL				ACTUATOR	FAILED		10/22/97
5260	33197	412				212075418103	STEP		HEEA0011708
	STEP ACTUATOR	INOPERATIVE.							
HEEA	22347	BELL				ACTUATOR	FAILED		11/7/97
5260	36005	412				212075418105	STEP		HEEA0011817
	STEP ACTUATOR	DOES NOT RETRACT.							
HEEA	2261D	BELL				PANEL ASSY	DENTED		11/7/97
5320	33076	412				205030407569	FUSELAGE		HEEA0011838
	RT PANEL ASSY D	DENTED BEYOND LIMI	ΓS						
HEEA	2261D	BELL				PANEL ASSY	CORRODED		11/5/97
5320	33076	412				412030324108	FUSELAGE		HEEA0011791
	PANEL ASSY HAS	CORROSION BEYOND	LIMITS.						

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HEEA	2261D	BELL				PANEL	SEPARATED		11/5/97
5321	33076	412				412030339101	FLOOR		HEEA0011792
	FLOOR PANEL SEP	ARATED BEYOND REI	PAIR.						
HEEA	22608	BELL				SKIN	MIS MFG		11/5/97
5330	33075	412				205032615016S	FUSELAGE		HEEA0011764
	SKIN WAS NOT MA	NUFACTURED WIDE	ENOUGH FOR PROPE	ER EDGE DISTANCE O	ON RIVETS. APPROX	XIMATELY 1/4" SHORTER	THAN ORIGINAL SKIN	Г.	
HEEA	6559Z	BELL				SKIN	DEFECTIVE		10/24/97
5330	36019	412				212030099071S	TAILBOOM		HEEA0011725
						NG. FOUND UPPER AREA RAPAROUND SKIN AT AF		O TIGHT. POS	ITIONED SADDLE SKIN
HEEA	2261D	BELL				SUPPORT	DEFECTIVE		10/22/97
6510	33076	412				205030236009	T/R DRIVE		HEEA0011723
		VT TAIL ROTOR DRIVE ING P/N 212-061-102-00					ARD PART OF SUPPORT	Γ. TAIL ROTO	R DRIVE SHAFT SUPPORT
HEEA	107X	BELL				CASE ASSY	CORRODED		11/7/97
6520	33113	412				212040506005	T/R GR BOX		HEEA0011820
	CASE ASSY CORRO	OSION ON MOUNTING	FLANGE.						
HEEA	21498	BELL				SLEEVE ASSY	CORRODED		11/7/97
6520	36003	412				212040452001	T/R GR BOX		HEEA0011819
	SLEEVE ASSY HAS	CORROSION ON FLAN	NGE AREA.						
HEEA	33008	BELL				ACTUATOR	INOPERATIVE		10/22/97
7160	36004	412				209062214001	AIR INTAKE		HEEA0011720
	ACTUATOR INOPE	RATIVE.							
HEEA	5759N	BELL	PWA			POWER SECTION	FAILED	11978	10/22/97
7250	33002	412	PT6T3B			3017600	ENGINE		HEEA0011714
	N2 POWER SECTIO	N DROPPED OFF LINE	UPON LANDING. CA	ANNOT ROTATE N2:	N1 TURNS FREELY.				
HEEA	107X	BELL	PWA			POWER SECTION	CRACKED	11668	11/7/97
7250	33113	412	PT6T3B			3017600	TURBINE		HEEA0011818
	ENGINE POWER SE	ECTION HAS A CRACK	IN GENERATOR CAS	SE.					
HEEA	3893N	BELL				IGNITER LEAD	FRAYED		11/5/97
7420	33010	412				CH5339901	ENGINE		HEEA0011768
	SHIELD FRAYED II	NSULATOR MISSING A	T IGNITOR END.						
HEEA	3893S	BELL				IGNITER LEAD	INOPERATIVE		11/5/97
7420	33022	412				CH5339901	ENGINE		HEEA0011769
	IGNITER LEAD INC	PERATIVE.							
HEEA	5759N	BELL				INDICATOR	DEFECTIVE		10/22/97
7714	33002	412				412075010109	TRIPLE TACH		HEEA0011705
	TRIPLE TACH REA	DS 2% LOW.							

		FICULTY REPORT		,	<del></del>		<u>11/16/97 To</u>		ISSUE: 97-47 ZAC-32
ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
HEEA	2298Z	BELL				INDICATOR	MALFUNCTION		10/22/97
7714	33077	412				412075010109	TRIPLE TACH		HEEA0011694
	TRIPLE TACH ALI	L NEEDLES HAVE STICE	XY OPERATION DUR	ING FUNCTION CHEC	CK.				
HEEA	108X	BELL				TRIM COMPENSATOR	ERRATIC		10/22/97
7722	33115	412				3030083	ENGINE		HEEA0011715
	TRIM COMPENSA	TOR ERRATIC AND INT	ERMITTENTLY INO	PERATIVE.					
HEEA		BELL				EJECTOR ASSY	CRACKED		10/22/97
7810		412				212061201012	RT EXH		HEEA0011658
	EJECTOR ASSY M	OUNT BRACKET IS CRA	ACKED.						
HEEA	5759N	BELL				EJECTOR ASSY	CRACKED		10/22/97
7810	33002	412				212061201012	RT EXH		HEEA0011700
	EJECTOR ASSY RI	ING CRACKED AT WEL	DS.						
HEEA	54197	BOLKMS			WHELEN	POWER SUPPLY	FAILED		11/6/97
3340	S805	BO105S				A413A	STROBE LIGHT		HEEA0011810
	POWER SUPPLY II	NOPERATIVE. SHORTE	D TAILBOOM PLUG.						
HEEA	81832	BOLKMS				COMPASS	LEAKING		11/7/97
3423	S828	BO105S				KCA0105W	COCKPIT		HEEA0011834
	MAG COMPASS LI	EAKING.							
HEEA	137AE	BOLKMS				ANTENNA	BROKEN		11/10/97
3444	S851	BO105S				071111400	RADAR ALTIMETE	R	HEEA0011854
	RADAR ALTITUD	E FLUCTUATES ON GRO	DUND. FOUND BNC	BROKEN OFF AND GA	ASKET MISSING.				
HEEA	131AE	BOLKMS			GARMIN	GPS 150	FAILED	878	11/10/97
3457	S787	BO105S				0110005400	COCKPIT GPS		HEEA0011852
	GPS INTERNAL BA	ATTERY DEAD.							
HEEA	5031U	BOLKMS				INDICATOR	DEFECTIVE		11/5/97
6240	S678	BO105S				DL43638	TRIPLE TACH		HEEA0011788
	TRIPLE TACH RO	TOR RPM 4% HIGH.							
HEEA	5031U	BOLKMS				WARNING BOX	INOPERATIVE		10/22/97
6240	S678	BO105S				KDW021	ROTOR RPM		HEEA0011713
	RPM WARN BOX I	NOPERATIVE.							
HEEA	5031U	BOLKMS				INDICATOR	STICKS		11/5/97
6240	S678	BO105S				DL43638	TRIPLE TACH		HEEA0011789
	TRIPLE TACH RPM	M STICKS.							

TRANSMITTER

10594575

MALFUNCTIONED

M/R TORQUE

BOLKMS

BO105S

TORQUE TRANSMITTER LIGHT DOES NOT COME ON.

54191

S804

HEEA

6240

10/22/97

HEEA0011709

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HEEA	54191	BOLKMS				INDICATOR	FAILED		10/22/97
5240	S804	BO105S				10594564	MAST MOMENT		HEEA0011710
	MAST MOMENT L	IGHT DOES NOT COME	E ON.						
HEEA	54197	BOLKMS				WARNING BOX	FAILED		11/5/97
6240	S805	BO105S				KDW021A	ROTOR RPM		HEEA0011796
	RPM WARN BOX V	WARNING GOES OFF IN	ADVERTENTLY.						
HEEA	137AE	BOLKMS				TRANSMITTER	DEFECTIVE		11/5/97
5240	S851	BO105S				10594575	MAST MOMENT		HEEA0011783
	MANT MOMENT I	NDICATOR LIGHT FLIC	CKERS.						
HEEA	137AE	BOLKMS				INDICATOR	DEFECTIVE		11/5/97
5240	S851	BO105S				10594564	MAST MOMENT		HEEA0011782
	MAST MOMENT II	NDICATOR LIGHT FLIC	KERS.						
EOPR	492HL	BOLKMS				BEARING	SPALLED		8/21/97
5320	S803	BO105CBS				4638302024	M/R GEARBOX		97ZZZX4832
						EPT LT INPUT PINION AND 4 CE WAS FOUND VERY SPAI			
HEEA	911PF	BOLKMS				BLADE	DEFECTIVE	682	10/22/97
5410	S718	BO105S				10531980	T/R		HEEA0011693
	T/R BLADE PAINT	PEELING; RUBBER CO	DATING MISSING AT	BLADE TIP.					
	T/R BLADE PAINT 81832	PEELING; RUBBER CO BOLKMS	DATING MISSING AT	BLADE TIP.		BEVEL GEAR SET	MAKING METAL	176	10/31/97
HEEA		-	DATING MISSING AT	BLADE TIP.		BEVEL GEAR SET 4619210902	MAKING METAL T/R XMSN	176	10/31/97 HEEA0011734
HEEA	81832 S828	BOLKMS		BLADE TIP.				176	
HEEA 6520	81832 S828	BOLKMS BO105S		BLADE TIP.				176	
HEEA 6520 HEEA	81832 S828 BEVEL GEAR SET	BOLKMS BO105S CAUSE OF METAL IN C		BLADE TIP.		4619210902	T/R XMSN	176	HEEA0011734
HEEA 5520 HEEA	81832 S828 BEVEL GEAR SET 5031U S678	BOLKMS BO105S CAUSE OF METAL IN C BOLKMS	DIL.	BLADE TIP.		4619210902 TACHOMETER GENER	T/R XMSN  ERRATIC	176	HEEA0011734
HEEA 5520 HEEA 7714	81832 S828 BEVEL GEAR SET 5031U S678	BOLKMS BO105S CAUSE OF METAL IN C BOLKMS BO105S	DIL.	BLADE TIP.		4619210902 TACHOMETER GENER	T/R XMSN  ERRATIC	176	HEEA0011734
HEEA 5520 HEEA 7714	81832 S828 BEVEL GEAR SET 5031U S678 TACH GENERATO	BOLKMS BO105S CAUSE OF METAL IN C BOLKMS BO105S R ERRATIC INDICATIO	DIL.	BLADE TIP.		4619210902 TACHOMETER GENER 32005007	T/R XMSN  ERRATIC  ENGINE	176	HEEA0011734 11/7/97 HEEA0011832
HEEA 6520 HEEA 7714	81832 S828 BEVEL GEAR SET 5031U S678 TACH GENERATO 3526T S610	BOLKMS BO105S CAUSE OF METAL IN C BOLKMS BO105S OR ERRATIC INDICATIO BOLKMS	DIL. DN.	BLADE TIP.		TACHOMETER GENER 32005007 INDICATOR	T/R XMSN  ERRATIC ENGINE  DEFECTIVE	176	HEEA0011734 11/7/97 HEEA0011832 10/22/97
HEEA 6520 HEEA 7714 HEEA 7722	81832 S828 BEVEL GEAR SET 5031U S678 TACH GENERATO 3526T S610	BOLKMS BO105S CAUSE OF METAL IN C BOLKMS BO105S OR ERRATIC INDICATIO BOLKMS BO105S	DIL. DN.	BLADE TIP.		TACHOMETER GENER 32005007 INDICATOR	T/R XMSN  ERRATIC ENGINE  DEFECTIVE	176	HEEA0011734 11/7/97 HEEA0011832 10/22/97
HEEA 6520 HEEA 7714 HEEA 7722	81832 S828 BEVEL GEAR SET 5031U S678 TACH GENERATO 3526T S610 EXH TEMP INDICA	BOLKMS BO105S CAUSE OF METAL IN C BOLKMS BO105S OR ERRATIC INDICATIO BOLKMS BO105S ATOR EXCESSIVE FRIC	DIL. DN.	BLADE TIP.		4619210902  TACHOMETER GENER 32005007  INDICATOR 50061036	T/R XMSN  ERRATIC ENGINE  DEFECTIVE EXH TEMP	176	HEEA0011734  11/7/97  HEEA0011832  10/22/97  HEEA0011645
HEEA 6520 HEEA 7714 HEEA 7722	81832 S828 BEVEL GEAR SET 5031U S678 TACH GENERATO 3526T S610 EXH TEMP INDICA 3526T S610	BOLKMS BO105S CAUSE OF METAL IN C BOLKMS BO105S OR ERRATIC INDICATIO BOLKMS BO105S ATOR EXCESSIVE FRICE BOLKMS	DIL. DN. TION ERROR.			TACHOMETER GENER 32005007  INDICATOR 50061036  INDICATOR	T/R XMSN  ERRATIC ENGINE  DEFECTIVE EXH TEMP  ERROR	176	HEEA0011734  11/7/97 HEEA0011832  10/22/97 HEEA0011645
HEEA 5520 HEEA 7714 HEEA 7722 HEEA	81832 S828 BEVEL GEAR SET 5031U S678 TACH GENERATO 3526T S610 EXH TEMP INDICA 3526T S610	BOLKMS BO105S CAUSE OF METAL IN C BOLKMS BO105S OR ERRATIC INDICATIO BOLKMS BO105S ATOR EXCESSIVE FRICE BOLKMS BO105S	DIL. DN. TION ERROR.			TACHOMETER GENER 32005007  INDICATOR 50061036  INDICATOR	T/R XMSN  ERRATIC ENGINE  DEFECTIVE EXH TEMP  ERROR	176	HEEA0011734  11/7/97 HEEA0011832  10/22/97 HEEA0011645
HEEA 6520 HEEA 7714 HEEA 7722 HEEA	81832 S828 BEVEL GEAR SET 5031U S678 TACH GENERATO 3526T S610 EXH TEMP INDICA 3526T S610 EXH TEMP INDICA	BOLKMS BO105S CAUSE OF METAL IN C BOLKMS BO105S OR ERRATIC INDICATIO BOLKMS BO105S ATOR EXCESSIVE FRICE BOLKMS BO105S ATOR WILL NOT CALIB	DIL. DN. TION ERROR.			4619210902  TACHOMETER GENER 32005007  INDICATOR 50061036  INDICATOR 50061036	T/R XMSN  ERRATIC ENGINE  DEFECTIVE EXH TEMP  ERROR EXH TEMP	176	HEEA0011734  11/7/97 HEEA0011832  10/22/97 HEEA0011645  10/22/97 HEEA0011644
HEEA 6520 HEEA 7714 HEEA 7722 HEEA	81832 S828 BEVEL GEAR SET 5031U S678 TACH GENERATO 3526T S610 EXH TEMP INDICA 3526T S610 EXH TEMP INDICA 5421E S806	BOLKMS BO105S CAUSE OF METAL IN C BOLKMS BO105S OR ERRATIC INDICATIO BOLKMS BO105S ATOR EXCESSIVE FRICE BOLKMS BO105S ATOR WILL NOT CALIB BOLKMS	DIL.  DN.  TION ERROR.  BRATE EXCESSIVE FF	RICTION ERROR.		TACHOMETER GENER 32005007  INDICATOR 50061036  INDICATOR 50061036  INDICATOR	T/R XMSN  ERRATIC ENGINE  DEFECTIVE EXH TEMP  ERROR EXH TEMP	176	HEEA0011734  11/7/97 HEEA0011832  10/22/97 HEEA0011645  10/22/97 HEEA0011644
HEEA 6520 HEEA 7714 HEEA 7722 HEEA 7722	81832 S828 BEVEL GEAR SET 5031U S678 TACH GENERATO 3526T S610 EXH TEMP INDICA 3526T S610 EXH TEMP INDICA 5421E S806	BOLKMS BO105S CAUSE OF METAL IN C BOLKMS BO105S OR ERRATIC INDICATIO BOLKMS BO105S ATOR EXCESSIVE FRICE BOLKMS BO105S ATOR WILL NOT CALIB BOLKMS BO105S	DIL.  DN.  TION ERROR.  BRATE EXCESSIVE FF	RICTION ERROR.		TACHOMETER GENER 32005007  INDICATOR 50061036  INDICATOR 50061036  INDICATOR	T/R XMSN  ERRATIC ENGINE  DEFECTIVE EXH TEMP  ERROR EXH TEMP	176	HEEA0011734  11/7/97 HEEA0011832  10/22/97 HEEA0011645  10/22/97 HEEA0011644
HEEA 6520 HEEA 7714 HEEA 7722 HEEA 7722 HEEA 7722	81832 S828 BEVEL GEAR SET 5031U S678 TACH GENERATO 3526T S610 EXH TEMP INDICA 3526T S610 EXH TEMP INDICA 5421E S806 INDICATOR HAS E	BOLKMS BO105S CAUSE OF METAL IN C BOLKMS BO105S OR ERRATIC INDICATIO BOLKMS BO105S ATOR EXCESSIVE FRICE BOLKMS BO105S ATOR WILL NOT CALIB BOLKMS BO105S EXCESSIVE FRICTION A	DIL.  DN.  TION ERROR.  BRATE EXCESSIVE FF	RICTION ERROR.		TACHOMETER GENER 32005007  INDICATOR 50061036  INDICATOR 50061036  INDICATOR TM42739	T/R XMSN  ERRATIC ENGINE  DEFECTIVE EXH TEMP  ERROR EXH TEMP  FAILED EXH TEMP	176	HEEA0011734  11/7/97 HEEA0011832  10/22/97 HEEA0011645  10/22/97 HEEA0011644  10/22/97 HEEA0011666

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO	
HEEA	86CH	BOLKMS				OIL COOLER	LEAKING		10/22/97	
7921	S557	BO105S				37010200004	NR 2 ENG		HEEA0011685	
	OIL COOLER LEAD	KING, NR2 ENGINE OII	COOLER.							
HEEA	6607K	BOLKMS				OIL COOLER	LEAKING		11/10/97	
7921	S841	BO105S				37010200004	ENG OIL		HEEA0011855	
	FOUND LEAKING	AT NR2 ENGINE SIDE	OF OIL COOLER. OIL	BEING BLOWN OUT	OF COOLER DURIN	IG FLIGHT.				
HEEA	3071K	BOLKMS				VALVE	INOPERATIVE		10/22/97	
7923	S859	BO105S				209072433103			HEEA0011698	
	VALVE INOPERAT	TIVE.								
HEEA	911RZ	BOLKMS				SENSOR	FAILED		10/22/97	
2210	7092	BK117A4				BHL430515	SPAS SYS		HEEA0011649	
	SPAS WOULD NO	ΓTEST.								
HEEA	134AE	BOLKMS				STATIC INVERTER	BROKEN		11/5/97	
2422	7237	BK117B2				SPS1607A	MOUNT		HEEA0011775	
	STATIC INVERTE	R BROKEN SCREWS OF	N MOUNT.							
IEEA	911NC	BOLKMS				FILTER ASSY	MALFUNCTIONEI	)	11/5/97	
320	7026	BK117A3				1171264801	M/R GR BOX		HEEA0011798	
	FILTER ASSY BYP	ASS INDICATOR DOES	NOT PROPERLY OP	ERATE.						
HEEA	136AE	BOLKMS				BLADE	DAMAGED	1384	11/7/97	
5410	7234	BK117B2				11731743	T/R		HEEA0011826	
	S/N 0005 HAS LEA	DING EDGE DAMAGEI	D. S/N 017 HAS NO DI	SCREPANCY						
HEEA	132AE	BOLKMS	LYC			FUEL NOZZLE	LEAK		10/24/97	
7310	7238	BK117B2	LTS101750B1			430137601	ENGINE		HEEA0011726	
		EALED FUEL LEAK IN % WARRANTY REPAIR		LINE BETWEEN FUE	L NOZZLES AT 9 O'C	CLOCK POSITION. REPLACE	ED FUEL MANIFOLD.	INSTALLED	S/N 1NL06437.	
R7MR	118LF	BOLKMS	LYC			EXCITER	FAILED	869	10/5/97	
412	7137	BK117A4	LTS101650B1			103832251	NR 1 ENGINE		97ZZZX4830	
	IGNITION EXCITER UNIT INOPERATIVE. FAILED TO IGNITE ENGINE. REPLACED WITH NEW UNIT, CORRECTED PROBLEM.									
HEEA	911NC	BOLKMS				INDICATOR	FAULTY		10/22/97	
714	7026	BK117A3				1179405603	ENG N1		HEEA0011643	
	N1 INDICATOR HI	GH OUT OF TOLERAN	CE ABOVE 50% INTE	RMITTENT OPERATION	ON.					
HEEA	401PH	BOLKMS				INDICATOR	FAILED		10/22/97	
714	7050	BK117A3				1179405603	ENG N1		HEEA0011689	
	N1 INDICATOR W	ILL NOT INDICATE.								
	159RP	ROBSIN				DRAIN TUBE	LEAKS	95	11/5/97	
2810	0342	R44				A7297	RT FIREWALL		97ZZZX4811	
****	FIREWALLS CREA		HAZARD. SUBMITTE	R RECOMMENDS RE	VISING THE SUMP I	N VALVE LEAKS, FUEL DR DRAIN PLUMBING ALA R2				

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
HEEA	4253S	SKRSKY				INDICATOR	DEFECTIVE		10/22/97
2841	760035	S76A				AT2062	FUEL SYS		HEEA0011653
	TOTALIZER INDIC	CATOR PARTS LOOSE I	NSIDE.						
HEEA	5128	SKRSKY				INDICATOR	FAILED		11/5/97
2841	760181	S76A				7645001078103	FUEL QTY		HEEA0011778
	FUEL QTY INDICA	ATOR BOTH NEEDLES V	WILL NOT INDICATE	j.					
HEEA	22342	SKRSKY				TRANSMITTER	DEFECTIVE		10/22/97
2932	760096	S76A				7645001078121	NR 1 HYD SYS		HEEA0011639
	HYD TRANSMITTI	ER DEFECTIVE. SLIGH	T FLUCTUATION ON	NR1 INDICATOR SY	STEM PRESSURE.				
HEEA	1546G	SKRSKY			WHELEN	POWER SUPPLY	FAILED		11/6/97
3340	760076	S76A				A413AHDADF1428	STROBE		HEEA0011809
	POWER SUPPLY IN	NOPERATIVE.							
HEEA	22342	SKRSKY				EMERGENCY POWER	FAILED		10/22/97
3350	760096	S76A				6013211	EMERGENCY LIGHT		HEEA0011659
	EMERGENCY POW	VER DEAD CELL. EME	RGENCY LIGHT WIL	L NOT COME ON.					
HEEA	1546G	SKRSKY				INDICATOR	DEFECTIVE		11/5/97
3414	760076	S76A				7645000801101	AIR SPEED		HEEA0011779
	AIR SPEED INDICA	ATOR READS 50 KNOTS	S SLOWER.						
HEEA	1546G	SKRSKY				ALTIMETER	DEFECTIVE		10/22/97
3416	760076	S76A				5035P2P44	COCKPIT ENCODER		HEEA0011677
	ENCODING ALTIM	METER READS 100 FT L	OW.						
HEEA	31219	SKRSKY				WEB	UNBONDED		10/22/97
5320	760230	S76A				7635109035102	FUSELAGE		HEEA0011716
	WEB IN UNBONDE	ED.							
HEEA		SKRSKY				TIP CAP	DEFECTIVE		10/22/97
5210		S76A				7615009043050	M/R		HEEA0011652
	TIP CAP NEEDS BA	ALANCING. RECEIVED	PART WITH NO FOR	RWARD WEIGHTS TH	EREFORE TIP CAP IS	S LIGHT. TIME SINCE REPAI	R 0:00.		
HEEA	1547D	SKRSKY				TIP CAP	TORN		10/22/97
5210	760077	S76A				7615009043050	M/R BLADE		HEEA0011717
	SKIN TORN ON TH	IE LOWER SIDE, JUST A	AFT OF THE LEADING	G EDGE STRIP.					
HEEA	3122H	SKRSKY				DAMPER	LEAKING		10/22/97
5220	760233	S76A				7610608000049	M/R		HEEA0011640
	M/R DAMPER LEA	KING.							
HEEA	5435V	SKRSKY				AMPLIFIER	MALFUNCTIONED		10/22/97
6240	760158	S76A				7690001881103	VIB ABSORB		HEEA0011696
	TURNING AFFECT	S VIBRATION LEVELS							

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
HEEA	1545X	SKRSKY				BEARING	SEPARATED		11/7/97
5300	760050	S76A				SB7003102	M/R DRIVE		HEEA0011842
	BEARING SEPARA	ATION BEYOND LIMITS							
HEEA	6097Z	SNIAS			WHELEN	POWER SUPPLY	FAILED		11/6/97
3340	2820	AS350B2				A490A	BEACON		HEEA0011801
	POWER SUPPLY B	LOWS FUSES.							
HEEA	6100R	SNIAS				STOP ASSY	WORN	1911	10/31/97
6220	2862	AS350B2				704A3363310951	M/R		HEEA0011738
	BEARINGS ARE W	ORN AND DETERIORA	TED. SERIAL NUMB	ERS REMOVED ARE	10426, 8824 AND 883	6.			
HEEA	6100R	SNIAS				BALL JOINT	WORN	1567	10/31/97
6220	2862	AS350B2				117775P	STARFLEX		HEEA0011742
	STARFLEX BALL.	JOINT BEARINGS WOR	N.						
HEEA	6097Z	SNIAS				YOKE ASSY	BROKEN	3373	10/31/97
6230	2820	AS350B2				350A37116200	M/R STOP		HEEA0011736
	YOKE ASSY STOP	BROKEN.							
HEEA	60951	SNIAS				COUPLING	WORN	4954	10/31/97
6310	2771	AS350B2				350A35110205	XMSN		HEEA0011744
	COUPLING BEARI	NGS WORN.							
HEEA	60951	SNIAS				RING	WORN	4954	10/31/97
6310	2771	AS350B2				350A35110500	GIMBAL RING		HEEA0011745
	BORES WORN ON	GIMBAL RING.							
HEEA	60951	SNIAS				CASING	WORN	4954	10/31/97
6320	2771	AS350B2				350A35110403	MGB		HEEA0011746
	MGB CASING BUS	SHING BORE WORN.							
HEEA	4000L	SNIAS				BEARING	SEPARATION		11/5/97
6520	2873	AS350B2				350A33215300	T/R DRIVE		HEEA0011793
	BEARING SEPARA	ATION.							
HEEA	4000L	SNIAS				GEAR BOX ASSY	DEFECTIVE	8118	10/31/97
6520	2873	AS350B2				350A33020005	T/R GR BOX SHAFT		HEEA0011749
	T/R GR BOX CHRO	OME COMING OFF OUT	PUT SHAFT.						
HEEA	6097Z	SNIAS				SERVO	LEAKING	1699	10/31/97
6730	2820	AS350B2				SC50821	FRONT CONTROL		HEEA0011748
	SERVO LEAKING	AT PISTON O'RING.							
HEEA	6100R	SNIAS				SERVO	BINDING	1069	10/31/97
6730	2862	AS350B2				SC50821	FRONT CONTROL		HEEA0011747
	CYCLIC BIND, FO	RE AND AFT.							

DOMESTIC SERVICE DIFFICULTY REPORT SUMMARY - HELICOPTERS (	(cont'd)

DOMEST:	IC SERVICE DIFF	ICULTY REPORT	SUMMARY - HEL	ICOPTERS (cont'	<u>d)</u>		<u>11/16/97 To</u>	0 11/22/97	ISSUE: 97-47 ZAC-327
ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
HEEA	6095S	SNIAS	TMECA			ENGINE	MAKING METAL	2160	11/7/97
7210	2777	AS350B2	ARRIEL1D			0292005220	GR BOX		HEEA0011825
	S.O.A.P SAMPLE SH	HOWED HIGH IRON AN	D OTHER METAL CO	NTENT.					
HEEA	60951	SNIAS	TMECA			BEARING	CRACKED	2460	11/7/97
7250	2771	AS350B2	ARRIEL1D			0292005220	ENGINE NGV		HEEA0011836
	REAR BEARING P.7	Γ. NGV CRACKED AT 6	:00 POSITION BEYON	D LIMITS. DURING	BORESCOPE INSPEC	TION OF COMB. CHAMBE	R SWIRL PLATE, FOUN	ND CRACK O	F ABOUT 90 DEGREES.
HEEA	60951	SNIAS				PROBE	FAILED	4928	10/31/97
7722	2771	AS350B2				6401497000	TEMPERATURE		HEEA0011737
	NG MAX NUMBER	STAYS THE SAME EVE	ERYDAY.						
HEEA	4000L	SNIAS				INDICATOR	INTERMITTENT	891	10/31/97
7722	2873	AS350B2				SELOC19EH	ENG T4		HEEA0011754
	ON START UP, T4 C	GAUGE INTERMITTENT	Γ, STICKS ON RELEAS	SE.					
(End of DO	MESTIC SERVICE I	DIFFICULTY REPOR	T SUMMARY - HEL	LICOPTERS)					

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
	1880G	BBAVIA	LYC			P LEAD	SHORTED		8/31/97
420	50	7GCBC	O320A2B				LT-RT MAG		97ZZZX4812
****	HEAD AND THE O INSULATION AND PROTECTION FOR	OVERVOLTAGE RELAY O P-LEAD WIRES IN SAM	LOCATED ON RIGHT ME WIRE BUNDLE. T ON BETWEEN MASTE	UPPER SIDE OF ENC HIS SHORTED THE L ER SWITCH AND OVE	GINE FIREWALL BEC EFT AND RIGHT MA	DUE TO WIRE BETWEEN M COMING EXTREMELY HOT AGNETOS CAUSING ENGIN SUBMITTER SUGGESTEI	T. THE EXTREME TEM TE TO CEASE OPERAT	IPERATURE M ION. THERE I	IELTED WIRE'S S NO CIRCUIT
	1851Z	BEECH	LYC			LIFTER	BROKEN	1770	9/24/97
520	M2343	C23	O360A4J			72877	NR 2 CYLINDER		97ZZZX4779
	THE ENGINE CASI METAL FATIGUE.	E BEING CRACKED AN PIECES FROM THIS W	D BROKEN IN SEVER ERE DEPOSITED BEN	AL PLACES AND LOS	SS OF ENGINE OIL.		E OF NR 2 CYLINDER	INTAKE LIFTE	ER BODY. POSSIBLE
	9469S	BEECH	CONT			SPRING	BROKEN	40	10/29/97
30	TE67	95C55	IO520C				NR 2 CYL EXH VI	.V	97ZZZX4764
	ENGINE RAN ROU	JGH. INSPECTION FOU	ND NR 2 EXHAUST O	UTER VALVE SPRING	G BROKEN.				
	82LB	BEECH	CONT			CYLINDER	FAILED		10/11/97
	TELLO 1 O	58	IO520C				RT ENG NR 4	148	97ZZZX4820
3530	TH910			ICATION EOUND ND	A CVI HEAD SEDAI	DATED EDOM DADDEL TI			
530	PILOT REPORTED RECENTLY OVER	RIGHT ENGINE RUNN	ING ROUGH. INVEST E ON CYLINDERS ARI	E NOT RECORDED. S		RATED FROM BARREL. TH MENDS THAT CYLINDERS	IE CYLINDER HAD BI	EEN INSTALLE	ED 148 HOURS BEFORE
	PILOT REPORTED RECENTLY OVER	RIGHT ENGINE RUNNI HAULED. TOTAL TIME	ING ROUGH. INVEST E ON CYLINDERS ARI	E NOT RECORDED. S			IE CYLINDER HAD BI	EEN INSTALLE	ED 148 HOURS BEFORE
GDMA	PILOT REPORTED RECENTLY OVER LIMIT BE ESTABL	RIGHT ENGINE RUNN HAULED. TOTAL TIME ISHED BY THE MFG O	ING ROUGH. INVEST E ON CYLINDERS ARI N CURRENT PRODUC	E NOT RECORDED. S		MENDS THAT CYLINDERS	IE CYLINDER HAD BI BE SCRAPPED AFTE	EEN INSTALLE R THEIR SECC	ED 148 HOURS BEFORE ND RUN OR TIME LIFF
5DMA	PILOT REPORTED RECENTLY OVER LIMIT BE ESTABL  58HJ 30314 PILOT REPORTED PUMP DRIVESHAF	RIGHT ENGINE RUNNI HAULED. TOTAL TIME JISHED BY THE MFG ON BELL 205A1 LOSS OF OIL PRESSUR	ING ROUGH. INVEST E ON CYLINDERS ARI N CURRENT PRODUC LYC T5313B RE IN-FLIGHT. THE FI EN. WHEN PUMP WAS	E NOT RECORDED. S TION ENGINE. LIGHT WAS TERMIN. S REMOVED, A PIECE	UBMITTER RECOM	MENDS THAT CYLINDERS	IE CYLINDER HAD BI BE SCRAPPED AFTE FAILED ENGINE OIL SHUT DOWN. UPON I	EEN INSTALLER THEIR SECO  4346  1005  INVESTIGATIO	ED 148 HOURS BEFORE IND RUN OR TIME LIFE 10/18/97 97ZZZX4823 DN, THE ENGINE OIL
DMA	PILOT REPORTED RECENTLY OVER LIMIT BE ESTABL  58HJ 30314 PILOT REPORTED PUMP DRIVESHAF	PRIGHT ENGINE RUNNI HAULED. TOTAL TIME JISHED BY THE MFG ON BELL 205A1 LOSS OF OIL PRESSUR FT WAS FOUND BROKE	ING ROUGH. INVEST E ON CYLINDERS ARI N CURRENT PRODUC LYC T5313B RE IN-FLIGHT. THE FI EN. WHEN PUMP WAS	E NOT RECORDED. S TION ENGINE. LIGHT WAS TERMIN. S REMOVED, A PIECE	UBMITTER RECOM	MENDS THAT CYLINDERS  OIL PUMP  13002124  Y AND THE ENGINE WAS	IE CYLINDER HAD BI BE SCRAPPED AFTE FAILED ENGINE OIL SHUT DOWN. UPON I	EEN INSTALLER THEIR SECO  4346  1005  INVESTIGATIO	ED 148 HOURS BEFORE IND RUN OR TIME LIFE 10/18/97 97ZZZX4823 DN, THE ENGINE OIL
GDMA 261	PILOT REPORTED RECENTLY OVER LIMIT BE ESTABL 58HJ 30314 PILOT REPORTED PUMP DRIVESHAR TIME, IT IS NOT K	PRIGHT ENGINE RUNNI HAULED. TOTAL TIME JISHED BY THE MFG OF BELL 205A1 LOSS OF OIL PRESSUR FT WAS FOUND BROKE ENOWN WHERE THE GE	ING ROUGH. INVEST E ON CYLINDERS ARI N CURRENT PRODUC LYC T5313B RE IN-FLIGHT. THE FI EN. WHEN PUMP WAS EAR TOOTH CAME FR	E NOT RECORDED. S TION ENGINE. LIGHT WAS TERMIN. S REMOVED, A PIECE	UBMITTER RECOM	MENDS THAT CYLINDERS  OIL PUMP  13002124  Y AND THE ENGINE WAS  ELL FROM PUMP OIL PASS	IE CYLINDER HAD BI S BE SCRAPPED AFTE FAILED ENGINE OIL SHUT DOWN. UPON I SAGE. GEAR PIECE IS	EEN INSTALLER THEIR SECO  4346  1005  INVESTIGATIO	ED 148 HOURS BEFORE ND RUN OR TIME LIFE  10/18/97  97ZZZX4823  DN, THE ENGINE OIL THE OIL PUMP. AT TH
BDMA 261	PILOT REPORTED RECENTLY OVERI LIMIT BE ESTABL  58HJ 30314 PILOT REPORTED PUMP DRIVESHAF TIME, IT IS NOT K  37488 2188 VALVE APPAREN	PRIGHT ENGINE RUNNI HAULED. TOTAL TIME JISHED BY THE MFG OF BELL 205A1 PLOSS OF OIL PRESSUR FT WAS FOUND BROKE KNOWN WHERE THE GE BELL 206B	ING ROUGH. INVEST E ON CYLINDERS ARI N CURRENT PRODUC LYC T5313B RE IN-FLIGHT. THE FI EN. WHEN PUMP WAS EAR TOOTH CAME FR ALLSN 250C20 HE CLOSED POSITION	E NOT RECORDED. S TION ENGINE.  LIGHT WAS TERMIN. S REMOVED, A PIECE OM.	EUBMITTER RECOM  ATED IMMEDIATEL  OF GEAR TOOTH F	OIL PUMP 13002124  Y AND THE ENGINE WAS ELL FROM PUMP OIL PASS BLEED VALVE	FAILED ENGINE OIL SHUT DOWN. UPON ISAGE. GEAR PIECE IS STICKING ENGINE	EEN INSTALLE R THEIR SECO 4346 1005 INVESTIGATIO FOREIGN TO	ED 148 HOURS BEFORE AND RUN OR TIME LIFE 10/18/97 97ZZZX4823 DN, THE ENGINE OIL THE OIL PUMP. AT THE 10/16/97 97ZZZX4810
DMA 261	PILOT REPORTED RECENTLY OVERI LIMIT BE ESTABL  58HJ 30314 PILOT REPORTED PUMP DRIVESHAF TIME, IT IS NOT K  37488 2188 VALVE APPAREN	PRIGHT ENGINE RUNNI HAULED. TOTAL TIME JISHED BY THE MFG OF BELL 205A1 PLOSS OF OIL PRESSUR FT WAS FOUND BROKE KNOWN WHERE THE GE BELL 206B TLY IS STICKING IN THE	ING ROUGH. INVEST E ON CYLINDERS ARI N CURRENT PRODUC LYC T5313B RE IN-FLIGHT. THE FI EN. WHEN PUMP WAS EAR TOOTH CAME FR ALLSN 250C20 HE CLOSED POSITION	E NOT RECORDED. S TION ENGINE.  LIGHT WAS TERMIN. S REMOVED, A PIECE OM.	EUBMITTER RECOM  ATED IMMEDIATEL  OF GEAR TOOTH F	OIL PUMP 13002124  Y AND THE ENGINE WAS ELL FROM PUMP OIL PASS BLEED VALVE 23053176	HE CYLINDER HAD BE SEE SCRAPPED AFTE  FAILED ENGINE OIL SHUT DOWN. UPON IS SAGE. GEAR PIECE IS  STICKING ENGINE	EEN INSTALLE R THEIR SECO 4346 1005 INVESTIGATIO FOREIGN TO	ED 148 HOURS BEFORE AND RUN OR TIME LIFE 10/18/97 97ZZZX4823 DN, THE ENGINE OIL THE OIL PUMP. AT THE 10/16/97 97ZZZX4810
532 IXTA	PILOT REPORTED RECENTLY OVER! LIMIT BE ESTABL  58HJ 30314 PILOT REPORTED PUMP DRIVESHAF TIME, IT IS NOT K  37488 2188 VALVE APPAREN' RESULTING IN GU	PRIGHT ENGINE RUNNI HAULED. TOTAL TIME JISHED BY THE MFG OF BELL 205A1 LOSS OF OIL PRESSUR FT WAS FOUND BROKE NOWN WHERE THE GE BELL 206B TLY IS STICKING IN TH JUSHOT TYPE SOUNDS	ING ROUGH. INVEST E ON CYLINDERS ARI N CURRENT PRODUC  LYC  T5313B RE IN-FLIGHT. THE FI EN. WHEN PUMP WAS EAR TOOTH CAME FR  ALLSN  250C20 HE CLOSED POSITION S COMING FROM THE	E NOT RECORDED. S TION ENGINE.  LIGHT WAS TERMIN. S REMOVED, A PIECE OM.	EUBMITTER RECOM  ATED IMMEDIATEL  OF GEAR TOOTH F	OIL PUMP 13002124  Y AND THE ENGINE WAS FELL FROM PUMP OIL PASS BLEED VALVE 23053176 R DEMAND IS DECREASEL	FAILED ENGINE OIL SHUT DOWN. UPON I SAGE. GEAR PIECE IS STICKING ENGINE THIS CREATES A M	EEN INSTALLE R THEIR SECO 4346 1005 INVESTIGATIO FOREIGN TO	ED 148 HOURS BEFORE PART OF TIME LIFE  10/18/97  97ZZZX4823  DN, THE ENGINE OIL THE OIL PUMP. AT TH  10/16/97  97ZZZX4810  COMPRESSOR STALL
DMA 261 532	PILOT REPORTED RECENTLY OVERI LIMIT BE ESTABL  58HJ 30314 PILOT REPORTED PUMP DRIVESHAF TIME, IT IS NOT K  37488 2188 VALVE APPAREN' RESULTING IN GU  142CF 47531	PRIGHT ENGINE RUNNI HAULED. TOTAL TIME JISHED BY THE MFG OF BELL 205A1 PLOSS OF OIL PRESSUR FT WAS FOUND BROKE INOWN WHERE THE GE BELL 206B TLY IS STICKING IN THE JUNSHOT TYPE SOUNDS	ING ROUGH. INVEST E ON CYLINDERS ARI N CURRENT PRODUC LYC T5313B RE IN-FLIGHT. THE FI EN. WHEN PUMP WAS EAR TOOTH CAME FR ALLSN 250C20 HE CLOSED POSITION S COMING FROM THE LYC LTS101750C1	E NOT RECORDED. S TION ENGINE.  LIGHT WAS TERMIN. S REMOVED, A PIECE OM.	EUBMITTER RECOM  ATED IMMEDIATEL  OF GEAR TOOTH F	OIL PUMP 13002124  Y AND THE ENGINE WAS ELL FROM PUMP OIL PASS BLEED VALVE 23053176 R DEMAND IS DECREASED TUBE	FAILED ENGINE OIL SHUT DOWN. UPON I SAGE. GEAR PIECE IS STICKING ENGINE D. THIS CREATES A M	EEN INSTALLE R THEIR SECO 4346 1005 INVESTIGATIO FOREIGN TO	ED 148 HOURS BEFORE NO RUN OR TIME LIFE  10/18/97 97ZZZX4823 DN, THE ENGINE OIL THE OIL PUMP. AT TH  10/16/97 97ZZZX4810 COMPRESSOR STALL  10/11/97
DMA 261 532 XTA 320	PILOT REPORTED RECENTLY OVERI LIMIT BE ESTABL  58HJ 30314 PILOT REPORTED PUMP DRIVESHAF TIME, IT IS NOT K  37488 2188 VALVE APPAREN' RESULTING IN GU  142CF 47531	PRIGHT ENGINE RUNNI HAULED. TOTAL TIME JISHED BY THE MFG OF BELL 205A1 PLOSS OF OIL PRESSUR FT WAS FOUND BROKE KNOWN WHERE THE GE BELL 206B TLY IS STICKING IN TH JUNSHOT TYPE SOUNDS BELL 222U	ING ROUGH. INVEST E ON CYLINDERS ARI N CURRENT PRODUC LYC T5313B RE IN-FLIGHT. THE FI EN. WHEN PUMP WAS EAR TOOTH CAME FR ALLSN 250C20 HE CLOSED POSITION S COMING FROM THE LYC LTS101750C1	E NOT RECORDED. S TION ENGINE.  LIGHT WAS TERMIN. S REMOVED, A PIECE OM.	EUBMITTER RECOM  ATED IMMEDIATEL  OF GEAR TOOTH F	OIL PUMP 13002124  Y AND THE ENGINE WAS ELL FROM PUMP OIL PASS BLEED VALVE 23053176 R DEMAND IS DECREASED TUBE	FAILED ENGINE OIL SHUT DOWN. UPON I SAGE. GEAR PIECE IS STICKING ENGINE D. THIS CREATES A M	EEN INSTALLE R THEIR SECO 4346 1005 INVESTIGATIO FOREIGN TO	ED 148 HOURS BEFORE NO RUN OR TIME LIFE  10/18/97 97ZZZX4823 DN, THE ENGINE OIL THE OIL PUMP. AT TH  10/16/97 97ZZZX4810 COMPRESSOR STALL  10/11/97
532 IXTA 320	PILOT REPORTED RECENTLY OVER! LIMIT BE ESTABL  58HJ 30314 PILOT REPORTED PUMP DRIVESHAF TIME, IT IS NOT K  37488 2188 VALVE APPAREN' RESULTING IN GU  142CF 47531 REPLACED CRACE	PRIGHT ENGINE RUNNI HAULED. TOTAL TIME JISHED BY THE MFG OF BELL 205A1 LOSS OF OIL PRESSUR FT WAS FOUND BROKE NOWN WHERE THE GE BELL 206B TLY IS STICKING IN TH JUNSHOT TYPE SOUNDS BELL 222U KED PY LINE AT FUEL	ING ROUGH. INVEST E ON CYLINDERS ARI N CURRENT PRODUCE LYC T5313B  RE IN-FLIGHT. THE FIEN. WHEN PUMP WAS EAR TOOTH CAME FRALLSN 250C20  HE CLOSED POSITION COMING FROM THE LYC LTS101750C1  CONTROL UNIT.	E NOT RECORDED. S TION ENGINE.  LIGHT WAS TERMIN. S REMOVED, A PIECE OM.	EUBMITTER RECOM  ATED IMMEDIATEL  OF GEAR TOOTH F	OIL PUMP 13002124  Y AND THE ENGINE WAS FELL FROM PUMP OIL PASS BLEED VALVE 23053176 R DEMAND IS DECREASED TUBE 418184001	FAILED ENGINE OIL SHUT DOWN. UPON I SAGE. GEAR PIECE IS STICKING ENGINE THIS CREATES A M CRACKED FC PY LINE	EEN INSTALLE R THEIR SECO 4346 1005 INVESTIGATIO FOREIGN TO 447	ED 148 HOURS BEFORE IND RUN OR TIME LIFE  10/18/97 97ZZZX4823 DN, THE ENGINE OIL THE OIL PUMP. AT TH  10/16/97 97ZZZX4810 COMPRESSOR STALL  10/11/97 97ZZZX4835
DMA 261 532 XTA 320	PILOT REPORTED RECENTLY OVERI LIMIT BE ESTABL  58HJ 30314 PILOT REPORTED PUMP DRIVESHAF TIME, IT IS NOT K  37488 2188 VALVE APPAREN' RESULTING IN GU  142CF 47531 REPLACED CRACK  5759N 33002	PRIGHT ENGINE RUNNI HAULED. TOTAL TIME JISHED BY THE MFG OF BELL 205A1 PLOSS OF OIL PRESSUR FT WAS FOUND BROKE JINOWN WHERE THE GE BELL 206B TLY IS STICKING IN TH JINSHOT TYPE SOUNDS BELL 222U KED PY LINE AT FUEL BELL	ING ROUGH. INVEST E ON CYLINDERS ARI N CURRENT PRODUC LYC T5313B RE IN-FLIGHT. THE FI EN. WHEN PUMP WAS EAR TOOTH CAME FR ALLSN 250C20 HE CLOSED POSITION S COMING FROM THE LYC LTS101750C1 CONTROL UNIT. PWA PT6T3B	E NOT RECORDED. S TION ENGINE.  LIGHT WAS TERMIN. S REMOVED, A PIECE OM.  AND DOES NOT OPE EXHAUST ON THE T	ATED IMMEDIATEL E OF GEAR TOOTH F EN UP WHEN POWEI URBINE.	OIL PUMP 13002124  Y AND THE ENGINE WAS FELL FROM PUMP OIL PASS BLEED VALVE 23053176 R DEMAND IS DECREASED TUBE 418184001  POWER SECTION 3017600	FAILED  STICKING ENGINE  STICKING ENGINE  CRACKED FC PY LINE	EEN INSTALLE R THEIR SECO 4346 1005 INVESTIGATIO FOREIGN TO 447	ED 148 HOURS BEFORE NO RUN OR TIME LIFE  10/18/97 97ZZZX4823 DN, THE ENGINE OIL THE OIL PUMP. AT TH  10/16/97 97ZZZX4810 COMPRESSOR STALL  10/11/97 97ZZZX4835
532 320 IEEA 250	PILOT REPORTED RECENTLY OVER! LIMIT BE ESTABL  58HJ 30314 PILOT REPORTED PUMP DRIVESHAF TIME, IT IS NOT K  37488 2188 VALVE APPAREN' RESULTING IN GU  142CF 47531 REPLACED CRACK  5759N 33002 N2 POWER SECTION	PRIGHT ENGINE RUNNI HAULED. TOTAL TIME JISHED BY THE MFG OF BELL 205A1 PLOSS OF OIL PRESSUR FT WAS FOUND BROKE NOWN WHERE THE GE BELL 206B TLY IS STICKING IN TE JUNSHOT TYPE SOUNDS BELL 222U KED PY LINE AT FUEL BELL 412 ON DROPPED OFF LINE	ING ROUGH. INVEST E ON CYLINDERS ARI N CURRENT PRODUC  LYC T5313B RE IN-FLIGHT. THE FI EN. WHEN PUMP WAS EAR TOOTH CAME FR ALLSN 250C20 HE CLOSED POSITION S COMING FROM THE LYC LTS101750C1 CONTROL UNIT.  PWA PT6T3B E UPON LANDING. CA	E NOT RECORDED. S TION ENGINE.  LIGHT WAS TERMIN. S REMOVED, A PIECE OM.  AND DOES NOT OPE EXHAUST ON THE T	ATED IMMEDIATEL E OF GEAR TOOTH F EN UP WHEN POWEI URBINE.	OIL PUMP 13002124 AY AND THE ENGINE WAS FELL FROM PUMP OIL PASS BLEED VALVE 23053176 R DEMAND IS DECREASED TUBE 418184001  POWER SECTION 3017600	FAILED ENGINE STICKING ENGINE THIS CREATES A M CRACKED FC PY LINE FAILED ENGINE	EEN INSTALLE R THEIR SECO 4346 1005 INVESTIGATIO FOREIGN TO 447 OMENTARY O	ED 148 HOURS BEFORE IND RUN OR TIME LIFE 10/18/97 97ZZZX4823 DN, THE ENGINE OIL THE OIL PUMP. AT TH 10/16/97 97ZZZX4810 COMPRESSOR STALL 10/11/97 97ZZZX4835 10/22/97 HEEA0011714
GDMA 261	PILOT REPORTED RECENTLY OVERI LIMIT BE ESTABL  58HJ 30314 PILOT REPORTED PUMP DRIVESHAF TIME, IT IS NOT K  37488 2188 VALVE APPAREN' RESULTING IN GU  142CF 47531 REPLACED CRACK  5759N 33002	PRIGHT ENGINE RUNNI HAULED. TOTAL TIME JISHED BY THE MFG OF BELL 205A1 PLOSS OF OIL PRESSUR FT WAS FOUND BROKE KNOWN WHERE THE GE BELL 206B TLY IS STICKING IN TH JUNSHOT TYPE SOUNDS BELL 222U KED PY LINE AT FUEL BELL 412	ING ROUGH. INVEST E ON CYLINDERS ARI N CURRENT PRODUC LYC T5313B RE IN-FLIGHT. THE FI EN. WHEN PUMP WAS EAR TOOTH CAME FR ALLSN 250C20 HE CLOSED POSITION S COMING FROM THE LYC LTS101750C1 CONTROL UNIT. PWA PT6T3B	E NOT RECORDED. S TION ENGINE.  LIGHT WAS TERMIN. S REMOVED, A PIECE OM.  AND DOES NOT OPE EXHAUST ON THE T	ATED IMMEDIATEL E OF GEAR TOOTH F EN UP WHEN POWEI URBINE.	OIL PUMP 13002124  Y AND THE ENGINE WAS FELL FROM PUMP OIL PASS BLEED VALVE 23053176 R DEMAND IS DECREASED TUBE 418184001  POWER SECTION 3017600	FAILED  STICKING ENGINE  STICKING ENGINE  CRACKED FC PY LINE	EEN INSTALLE R THEIR SECO 4346 1005 INVESTIGATIO FOREIGN TO 447	ED 148 HOURS BEFORE NO RUN OR TIME LIFE  10/18/97 97ZZZX4823 DN, THE ENGINE OIL THE OIL PUMP. AT THE  10/16/97 97ZZZX4810 COMPRESSOR STALL  10/11/97 97ZZZX4835

HEEA			ENG MDL	PROP MDL	COMP MDL	PART NUMBER	PART LOC.	TSO	OPER CONT NO	
	3893N	BELL				IGNITER LEAD	FRAYED		11/5/97	
7420	33010	412				CH5339901	ENGINE		HEEA0011768	
	SHIELD FRAYED I	NSULATOR MISSING A	T IGNITOR END.							
HEEA	3893S	BELL				IGNITER LEAD	INOPERATIVE		11/5/97	
7420	33022	412				CH5339901	ENGINE		HEEA0011769	
	IGNITER LEAD INC	OPERATIVE.								
HEEA	132AE	BOLKMS	LYC			FUEL NOZZLE	LEAK		10/24/97	
7310	7238	BK117B2	LTS101750B1			430137601	ENGINE		HEEA0011726	
		EALED FUEL LEAK IN I 6 WARRANTY REPAIR		LINE BETWEEN FUEI	L NOZZLES AT 9 O'C	CLOCK POSITION. REPLACE	O FUEL MANIFOLD. IN	NSTALLED S	/N 1NL06437.	
R7MR	118LF	BOLKMS	LYC			EXCITER	FAILED	869	10/5/97	
7412	7137	BK117A4	LTS101650B1			103832251	NR 1 ENGINE		97ZZZX4830	
	IGNITION EXCITE	R UNIT INOPERATIVE.	FAILED TO IGNITE	ENGINE. REPLACED	WITH NEW UNIT, C	CORRECTED PROBLEM.				
ISCA	709PV	DHAV	PWA			ENGINE	MALFUNCTIONED		11/4/97	
7200	640	DHC6300	PT6A27				TORQUE		97ZZZX4825	
		NGINES EXCEEDED M THE WIND CONDITION				CTURER. ISLAND AIR BELI HT.	EVES THE CAUSE OF T	THE INCIDE	NT WAS OR CAN BE	
	46SD	PIPER	LYC			HOUSING	LEAK		10/8/97	
8550	278054040	PA23250	IO540C4B5			76152	FILTER MOUNT PA	D 50	97ZZZX4755	
	A FLAW IN THE CASTING NEAR THE UPPER LEFT HAND CORNER OF THE OIL FILTER ADAPTER MOUNTING PAD WAS ALLOWING OIL UNDER PRESSURE TO LEAK THROUGH THE CASTING. THE ENGINE HAD BEEN OVERHAULED BY LYCOMING 50 HOURS PRIOR TO THE OCCURRENCE.									
	162ER	PIPER	LYC			CYLINDER	CRACKED	3000	11/4/97	
8530	2841152	PA28161	O320D3G				NR 2 CYL BARREL	282	97ZZZX4796	
	BARREL (6 INCHES		NG FLANGE). THIS IS	BETWEEN THE COO		ON GAUGE REVEALED THE BASE OF THE EXHAUST PO				
FFKA	7748J	PIPER	LYC		SLICK	IMPULSE COUPLING	BROKEN	667	10/15/97	
7414	321152	PA32260	O540E4B5		6355	M3635	LT MAG		97ZZZX4762	
****	ABLE TO MAKE A PAWLS INSIDE IMI TURNING WHICH I	FORCED LANDING IN PULSE COUPLING ASS	A COW POSTURE. IN Y, PN M3635, HAD FA CRANKSHAFT AND	NVESTIGATION AND I LILED CAUSING PAWI IDLER GEARS IN ENC	ENG TEAR DOWN F LS TO JAM BETWEF GACCY HOUSING.	ATTEMPTS MADE BY PILOT REVEALED LT MAG HAD SE EN MAG HOUSING AND THE INSP OF THE IMPULSE COU 00 HOUR INSP.	ZED. MORE SPECIFIC IMPULSE COUPLING	CALLY, THE ASSY. THIS	RIVETS WHICH RETAIN PREVENTED MAG FROM	
HEEA	6095S	SNIAS	TMECA			ENGINE	MAKING METAL	2160	11/7/97	
7210	2777	AS350B2	ARRIEL1D			0292005220	GR BOX		HEEA0011825	
	S.O.A.P SAMPLE SI	HOWED HIGH IRON AN	ND OTHER METAL CO	ONTENT.						
HEEA	60951	SNIAS	TMECA			BEARING	CRACKED	2460	11/7/97	
70.50	2771	AS350B2	ARRIEL1D			0292005220	ENGINE NGV		HEEA0011836	
7250										

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO	
HEEA	5007N	BELL				AMPLIFIER	OVERHEATS		10/22/97	
2330	45184	206L1				AA20030	PUB ADDRESS		HEEA0011664	
	PA AMPLIFIER GE	TS EXCESSIVELY HOT	; THEN SHUTS DOWN	N.						
HEEA	2759U	BELL			NARCO	ELT	FAILED		10/22/97	
2562	45267	206L1				ELT910	COCKPIT		HEEA0011675	
	ELT ACTIVATION	LIGHT STAYS ON.								
HEEA	6251Y	BELL			NARCO	ELT	INOPERATIVE		11/5/97	
2562	51556	206L3				ELT10	COCKPIT		HEEA0011780	
	ELT INOPERATIVE	E, BATTERY DEAD.								
HEEA	21240	BELL				INDICATOR	STICKS		10/22/97	
3413	45647	206L1				206070278005	COCKPIT VSI		HEEA0011630	
	NEEDLE STICKS A	AROUND 500 FEET GOI	NG UP.							
HEEA	515KA	BELL				INDICATOR	FAILED		11/7/97	
3413	51048	206L3				212070239001	COCKPIT VSI		HEEA0011840	
	RATE OF CLIMB INDICATOR FAILED. CANNOT GET INDICATOR TO ZERO.									
HEEA	45RP	BELL				INDICATOR	FLUCTUATES		11/5/97	
3414	45521	206L1				8000	AIR SPEED		HEEA0011790	
	AIR SPEED NEEDL	E FLUCTUATES IN FLI	GHT.							
HEEA	21240	BELL				ALTIMETER	ERROR		10/22/97	
3416	45647	206L1				5934D1	COCKPIT		HEEA0011631	
	ALTIMETER HAS I	EXCESSIVE CASE LEAF	KAGE AND FRICTION	ERROR.						
HEEA	21240	BELL				ALTIMETER	CORRODED		10/22/97	
3416	45647	206L1				1330061	COCKPIT		HEEA0011638	
	EXCESSIVE FRICT	TION ERROR AND CORI	RODED ON HOUSING	j.						
HEEA	515KA	BELL				ALTIMETER	FAILED		11/7/97	
3416	51048	206L3			RT220	4004437903	COCKPIT		HEEA0011848	
	FAILED 1.1 ON SST	Γ ALTIMETER VALID L	IGHT DOES NOT STA	AY ON.						
HEEA	363BH	BELL				INDICATOR	INOPERATIVE		10/22/97	
3424	51345	206L3				206070274005	COCKPIT T&B		HEEA0011704	
	INDICATOR INOPE	ERATIVE.								
HEEA		BELL				RNAV	DEFECTIVE		11/5/97	
3440		206L3				6223767001	COCKPIT		HEEA0011800	
	RNAV BUTTON ST	TICKS.								
HEEA	102PH	BELL				COMPENSATOR	SHORTED		10/22/97	
3423	30899	212				2593379001	COMPASS		HEEA0011695	
	COMPENSATOR S	HORTED OUT INTERNA	ALLY.							

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
HEEA	1202T	BELL				TARSYN	DEFECTIVE		11/7/97
2210	33112	412				2593996333	COCKPIT		HEEA0011828
	TARSYN DOES NO	OT STABILIZE. FAILED	TEST 3.1 ON SST BE	NCH.					
HEEA	6559Z	BELL				TARSYN	FAILED		11/7/97
2210	36019	412				2593996333	COCKPIT DG		HEEA0011827
	DIRECTIONAL GY	RO WILL NOT TURN C	OMPASS CARD ON H	SI AND OFF FLAG W	ILL NOT PULL ON H	SI.			
HEEA	2014K	BELL				COMPUTER	FAILED		10/22/97
2211	33020	412				4025008918	AFCS		HEEA0011650
	AFCS COMPUTER	FAILED 31.2 AND FOLI	LOWING TEST ON SS	T.					
HEEA	5759N	BELL			NARCO	ELT	MALFUNCTIONED		10/22/97
2562	33002	412				ELT910	COCKPIT		HEEA0011674
	ELT GOES OFF IN	TERMITTENTLY.							
HEEA	108X	BELL				INDICATOR	DEFECTIVE		10/22/97
3414	33115	412				412075009105	AIR SPEED		HEEA0011690
	AIR SPEED INDIC.	ATOR READS LOW APP	ROXIMATELY 15 MP	H.					
HEEA	2149S	BELL				ALTIMETER	DEFECTIVE		10/22/97
3416	36002	412				1003511326	COCKPIT		HEEA0011642
	ALTIMETER HAS	LOOSE PARTS INSIDE.							
HEEA	2149S	BELL				ENCODER	FAILED		11/5/97
3416	36002	412				066306401	COCKPIT ALT		HEEA0011774
	ENCODER INDICA	ATES HIGH OUT OF TOI	LERANCE ON HIGH E	ND.					
HEEA	22347	BELL				ENCODER	FAILED		10/22/97
3416	36005	412				8800	ALTIMETER		HEEA0011651
	ENCODER DOES N	NOT SUPPLY ANY ALTI	TUDE READINGS TO	TEST BOX.					
HEEA	22347	BELL				GYRO	DEFECTIVE		11/5/97
3420	36005	412				4020936903	3 AXIS GYRO		HEEA0011786
	3 AXIS GYRO ERE	ECTS FASTER THAN OT	HER INSTALLED TAF	RSYN.					
HEEA	1202T	BELL				INDICATOR	FAILED		11/10/97
3421	33112	412				222375033103	COCKPIT ATTITUDE	Ξ	HEEA0011851
	ATTITUDE INDIC	ATOR WON'T STAY ERI	ECT IN AIRCRAFT. T	IME SINCE REPAIR 7	7:05.				
HEEA	107X	BELL				INDICATOR	FAILED		11/5/97
3421	33113	412				222375033103	COCKPIT ATTITUDE	Ξ	HEEA0011787
	ATTITUDE INDICA	ATOR INOPERATIVE.							
HEEA	107X	BELL				TRANSPONDER	FAILED		10/22/97
3444	33113	412				7001840913	RADIO ALT		HEEA0011706
	FAILED TEST 5.2.0	ON SST AND HAS LOW	OUTPUT, SENT TO HO	ONEYWELL, TEXAS I	FOR INSPECTION AN				

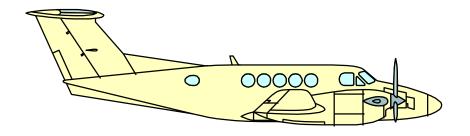
DOMESTIC SERVICE	DIFFICULTY REPORT SI	UMMARY - COMPONENTS (co	ont'd
- DOMESTIC SERVICE	CHICCICULT EREPURT SU	DIVIDIAR I - CONTRONENTS CO	om a

	IC SERVICE DIFI			•	<del></del>	DA DE MARE	DADE COM	TO CO	DIEE DAGE
ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
HEEA	2148K	BELL			GARMIN	GPS165	DEFECTIVE		11/10/97
3457	36001	412				0110010600	COCKPIT GPS		HEEA0011853
	GPS INTERNAL BA	ATTERY NEEDS REPLAC	CEMENT. FOUND M	ESSAGE TO DISPLAY	"EXTERNAL BATTI	ERY OVERTEMP".			
HEEA	81832	BOLKMS				COMPASS	LEAKING		11/7/97
3423	S828	BO105S				KCA0105W	COCKPIT		HEEA0011834
	MAG COMPASS LI	EAKING.							
HEEA	137AE	BOLKMS				ANTENNA	BROKEN		11/10/97
3444	S851	BO105S				071111400	RADAR ALTIMETE	ER	HEEA0011854
	RADAR ALTITUDI	E FLUCTUATES ON GRO	OUND. FOUND BNC	BROKEN OFF AND G	ASKET MISSING.				
HEEA	131AE	BOLKMS			GARMIN	GPS 150	FAILED	878	11/10/97
3457	S787	BO105S				0110005400	COCKPIT GPS		HEEA0011852
	GPS INTERNAL BA	ATTERY DEAD.							
HEEA	911RZ	BOLKMS				SENSOR	FAILED		10/22/97
2210	7092	BK117A4				BHL430515	SPAS SYS		HEEA0011649
	SPAS WOULD NO	ΓTEST.							
HEEA	1546G	SKRSKY				INDICATOR	DEFECTIVE		11/5/97
3414	760076	S76A				7645000801101	AIR SPEED		HEEA0011779
	AIR SPEED INDICA	ATOR READS 50 KNOTS	SLOWER.						
HEEA	1546G	SKRSKY				ALTIMETER	DEFECTIVE		10/22/97
3416	760076	S76A				5035P2P44	COCKPIT ENCODE	R	HEEA0011677
		METER READS 100 FT LO	2111						

B635 ACH GENERATOR F 675K '18803966T ISPECTION FOUND	,	R 3 INCHES LONG) O	MCAULY D3A34C402		TACH GENERATOR 503890571 HUB	CORRODED PROP CRACKED		11/7/97 HEEA0011824 10/29/97
ACH GENERATOR F 675K 18803966T ISPECTION FOUND	IAS CORROSION ON C CESSNA T188C HUB CRACKED (OVER	R 3 INCHES LONG) O	MCAULY D3A34C402		НИВ			
675K 18803966T ISPECTION FOUND	CESSNA T188C HUB CRACKED (OVER	R 3 INCHES LONG) O	MCAULY D3A34C402			CRACKED		10/29/97
18803966T ISPECTION FOUND	T188C HUB CRACKED (OVER	,	D3A34C402			CRACKED		10/29/97
SPECTION FOUND	HUB CRACKED (OVER	,			D5050C402			10/42/21
	,	,	N FRONT OF NR 3 B		D5858C402	NR 3 SOCKET		97ZZZX4767
			LIMITS (BLADE MC		AROUND BOTH LIPS OF N SCRAP HUB SENT TO MCC.			
31FE	CESSNA		HARTZL		BLADE	CRACKED	5378	10/22/97
08B0031	208B		HCB3M		M10083	BLADE FACE	2091	97ZZZX4805
						POSSIBLY UNDER TH	E EROSION SH	IELD. THE CRACKS
31FE	CESSNA		HARTZL		BLADE	CRACKED	5378	10/22/97
08B0031	208B		HCB3M		M10083	BLADE FACE	2091	97ZZZX4804
						POSSIBLY UNDER TH	E EROSION SH	IELD. THE CRACKS
31FE	CESSNA		HARTZL		BLADE	CRACKED	5378	10/22/97
08B0031	208B		HCB3M		M10083	BLADE FACE	2091	97ZZZX4803
						POSSIBLY UNDER TH	E EROSION SH	IELD. THE CRACKS
31 08 IS 31 08 IS	RE FOUND DURIN  IFE  8B0031  PECTION FOUND  RE FOUND DURIN  IFE  8B0031  PECTION FOUND	RE FOUND DURING INSPECTION PER H  IFE CESSNA  PECTION FOUND ALL 3 BLADES HAVE RE FOUND DURING INSPECTION PER H  IFE CESSNA  BB0031 208B  PECTION FOUND ALL 3 BLADES HAVE	RE FOUND DURING INSPECTION PER HARTZELL JB 169A. F  IFE CESSNA  BB0031 208B  PECTION FOUND ALL 3 BLADES HAVE CHORDWISE CRACK RE FOUND DURING INSPECTION PER HARTZELL JB 169A. F  IFE CESSNA  BB0031 208B  PECTION FOUND ALL 3 BLADES HAVE CHORDWISE CRACK RE FOUND DURING INSPECTION PER HARTZELL JB 169A. F	RE FOUND DURING INSPECTION PER HARTZELL JB 169A. PROPELLER REMOVING BENOM HARTZL BB0031 208B HCB3M PECTION FOUND ALL 3 BLADES HAVE CHORDWISE CRACKS BEYOND THE 3.5 RE FOUND DURING INSPECTION PER HARTZELL JB 169A. PROPELLER REMOVING BENOM HARTZL BB0031 208B HCB3M PECTION FOUND ALL 3 BLADES HAVE CHORDWISE CRACKS BEYOND THE 3.5	RE FOUND DURING INSPECTION PER HARTZELL JB 169A. PROPELLER REMOVED FROM SERVICE AND HARTZL  BB0031 208B HCB3M  PECTION FOUND ALL 3 BLADES HAVE CHORDWISE CRACKS BEYOND THE 3.5 INCH LIMIT. ALL CRE FOUND DURING INSPECTION PER HARTZELL JB 169A. PROPELLER REMOVED FROM SERVICE AND HARTZL  BB0031 208B HCB3M  PECTION FOUND ALL 3 BLADES HAVE CHORDWISE CRACKS BEYOND THE 3.5 INCH LIMIT. ALL CRE FOUND DURING INSPECTION PER HARTZELL JB 169A. PROPELLER REMOVED FROM SERVICE AND PROPELLER PROPELLER PROPELLER PROPELLE	RE FOUND DURING INSPECTION PER HARTZELL JB 169A. PROPELLER REMOVED FROM SERVICE AT THIS TIME.  HARTZL BLADE  BB0031 208B HCB3M M10083  PECTION FOUND ALL 3 BLADES HAVE CHORDWISE CRACKS BEYOND THE 3.5 INCH LIMIT. ALL CRACKS LEAD UP TO AND I RE FOUND DURING INSPECTION PER HARTZELL JB 169A. PROPELLER REMOVED FROM SERVICE AT THIS TIME.  HE CESSNA HARTZL BLADE  BB0031 208B HCB3M M10083	RE FOUND DURING INSPECTION PER HARTZELL JB 169A. PROPELLER REMOVED FROM SERVICE AT THIS TIME.  IFE CESSNA HARTZL BLADE CRACKED  BB0031 208B HCB3M M10083 BLADE FACE  PECTION FOUND ALL 3 BLADES HAVE CHORDWISE CRACKS BEYOND THE 3.5 INCH LIMIT. ALL CRACKS LEAD UP TO AND POSSIBLY UNDER THE RE FOUND DURING INSPECTION PER HARTZELL JB 169A. PROPELLER REMOVED FROM SERVICE AT THIS TIME.  IFE CESSNA HARTZL BLADE CRACKED  BB0031 208B HCB3M M10083 BLADE FACE  PECTION FOUND ALL 3 BLADES HAVE CHORDWISE CRACKS BEYOND THE 3.5 INCH LIMIT. ALL CRACKS LEAD UP TO AND POSSIBLY UNDER THE	HARTZL BLADE CRACKED 5378  BB0031 208B HCB3M M10083 BLADE FACE 2091  PECTION FOUND ALL 3 BLADES HAVE CHORDWISE CRACKS BEYOND THE 3.5 INCH LIMIT. ALL CRACKS LEAD UP TO AND POSSIBLY UNDER THE EROSION SH RE FOUND DURING INSPECTION PER HARTZELL JB 169A. PROPELLER REMOVED FROM SERVICE AT THIS TIME.  IFE CESSNA HARTZL BLADE CRACKED 5378  BB0031 208B HCB3M M10083 BLADE FACE 2091  PECTION FOUND ALL 3 BLADES HAVE CHORDWISE CRACKS BEYOND THE 3.5 INCH LIMIT. ALL CRACKS LEAD UP TO AND POSSIBLY UNDER THE EROSION SH



# INTERNATIONAL SERVICE DIFFICULTY REPORT



ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
		BEECH	PWA		BEECH	BEARING	DESTROYED		8/27/94
3233		A100	PT6A34		99910057651	MRC7107KRD	LDG GEAR ACTU	JATR	CA940914024
****	ACTÚATOR END P		LUDED DISASSEMBL	Y HAD BEEN PERFO		NION GEARS WERE CHIPP UST BEARING HAD BEEN			
		BEECH	PWA		BEECH	RIB	CRACKED	11450	9/1/94
5521		100BEECH	PT6A28			115610010185	ELEVATOR RH		CA940914021
	(CAN) WHEN COM	PLYING WITH AD 76-2	2-03, NOSE RIB AT ST	TA. 124.91 FOUND CR	ACKED. REPAIRED	WITH KIT P/N 100-4005-1S			
		BEECH	PWA	HARTZL		HANDLE	BROKEN		2/14/97
5210		200BEECH	PT6A41	HCB3TN3		1013840961	PASS/CREW DOO	)R	AU970091
	(AUS) CABIN DOO	R HANDLE BROKEN IN	AREA AROUND BEA	ARING HOUSING - HA	ANDLE THEN SEPAR	ATED FROM SQUARE SHA	AFT.		
		BEECH	LYC	MCAULY		SEAT BELT	UNAPPROVED PA	ART	1/15/97
2510		A2324	IO360A2B	2D34C9			FLIGHT COMPAR	RT	AU970102
	(AUS) AUTOMOTIV	VE WEBBING AND HAR	RDWARE USED FOR S	SEAT BELTS - UNAPP	ROVEDPART - PERS	ONNEL/MAINTENANCE E	RROR		
		BEECH	CONT	MCAULY		FITTING	CORRODED		1/15/97
5741		D55	IO520C	2AF34C55		951100162	RT SPAR		AU970075
	(AUS) REAR SPAR	RH WING FITTING COI	RRODED - WING BOL	LT, NUT AND WASHE	R ALSO CORRODED	- FOUND DURING INSPEC	CTION IAW AD/BEECH	H55/79	
		BEECH	CONT	HARTZL		CIRCUIT BREAKER	MISWIRED		1/30/97
2450		58	IO520C	BHCJ2YF2			AC POWER DISTI	RIB	AU970106
						CORRECT CB WHICH HA S AWAY) - HF CIRCUIT BE			BREAKER MARKED EL/MAINTENANCE ERROR
		BEECH				TUBE	BROKEN	14	8/9/94
3020		C90A				909100991	COWL AIR INLET	Γ	CA940906001
	( - )	D PERIPHERY OF WEL				AME TUBE ON RH ENGIN T PIPE. P/N OF THIS PIPE 1			H ENGINE EXHAUST PIPE #23 RECOMMENDS
		BNORM	LYC	HARTZL		REGULATOR	BURNT		2/9/97
2436		BN2B20	IO540K1B5	HCC2YK2		NB813485	DC VOLTAGE		AU970090
	(AUS) RH ALTERN	ATOR VOLTAGE REGU	JLATOR BURNT OUT	DUE TO FAILURE O	F THE DRIVER TRAN	NSISTOR IN THE ALTERNA	ATOR FIELD WINDING	G	
		BNORM	LYC	HARTZL		CABLE	MISROUTED		2/8/97
2720		BN2A20	IO540K1B5	HCC2YK2			RUDDER CONTR	OLS	AU970108
						CONTROL COLUMN ELEC OSITION - PERSONNEL/MA		AD OF ABOVE	IT -THIS CAUSED THE
		CAMAIR				STRUT ASSY	CRACKED	147	8/24/94
		CI IIVII IIIC							
5500		480				41720007	TAILBOOM		CA940906004

INTERNATIONAL SERVICE DIFFICULTY REPORT SUMMARY - AIRCRAF	AFT (cont'd)	cont'd)
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RECENTLY BEEN OVERHAULED, HOWEVER PRESSURE SWITCH SOME HOW GOT CONTAMINATED.

ATA	REG. NO	ACFT MAKE	ENG MAKE	PROP MAKE	COMP MFG	PART NAME	PART COND	TT	DIFF. DATE
OPER	SERIAL NO	ACFT MODEL	ENG MDL	PROP MDL	COMP MDL	PART NUMBER	PART LOC.	TSO	OPER CONT NO
		CESSNA		MCAULY		SPAR	CRACKED		1/23/97
521		A152		1A103TCM		043200121	LT ELEVATOR		AU970064
	HINGE HALF PNO	0432001-71 - CRACK LE	NGTH38MM (1.49IN	) - DURING REPAIR A	NOTHER CRACK WA	O ALONG VERTICAL FACE AS FOUND EXTENDING BI SO FOUND AS NO ANTI CO	ELOW LOWER OUTBOARI	O RIVET A	TTACHING TORQUE TUB
		CESSNA	LYC	MCAULY	CESSNA	FITTING	CRACKED		9/7/94
3230		172RG	O360F1A6	B2D34C220		24130023	ACTUATR LDG GEAR	!	CA940914035
		URING ACTUATOR FIT ACKS 1 TO 1-1/2 INCHES		AR FOUND LOOSE. PU	JLLING NOSE GEAR	FORE & AFT SHOWED TH	AT FITTING WAS FLEXIN	G. WHEN A	AREA CLEANED CRACKS
		CESSNA	CONT	MCAULY		FLAP	DAMAGED		2/7/97
753		172F	O300C	1C172EM		052390138	TE FLAP STRUCTUR		AU970086
	TRACKS AND FLA	P CONDITION WAS FOR TENANCE ERROR	UND WHEN THE TRA	ACKS WERE REPLAC		REES - FLAP HAD BEEN D S - INBOARD LOWER FLA	P TRACK ATTACHMENT E		S ALSO CRACKED -
		CESSNA	CONT	MCAULY		ELEVATOR	CRACKED		8/13/94
521		182E	O470R	2A36C29		07346001	FRONT SPAR		CA940913302
		ATOR FOUND CRACKE R LOWER SKIN FOR 8.5				FROM UPPER RADIUS OF PTT UNKNOWN.	SPAR, RUNNING DOWN S	PAR & CO	NTINUING CHORDWISE
		CESSNA	PWA			TORQUE TUBE	CRACKED		1/22/97
2730		208	PT6A114			26340171	ELEVATOR CONTROL	I	AU970100
	(AUS) LH ELEVAT END FITTING WHI LADEN ENVIRONI	CH CAUSED THE TUBE	E TUBE CRACKED I TO EXPAND AND C	LONGITUDINALLY TI RACK - SUSPECT INA	HROUGH RIVET HOI ADEQUATE TREATM	E 60MM (2.36IN) FROM IN ENT DURING ASSEMBLY	BOARD END - CORROSIO - AIRCRAFT OPERATES A	N FOUND	BETWEEN TUBE AND Γ PLANE IN A SALT
		CESSNA	CONT	MCAULY		BOLT	CORRODED		4/15/94
230		210H	IO520A	D3A32C88		NAS464P644	NLG DOWNLOCK		CA940914040
	(CAN) NOSE WHEI	EL COLLAPSED ON LDO	G. FOUND NOSE GEA	AR DOWN LOCK PIVO	OT BOLT CORRODED	WHICH PREVENTED DOV	WN LOCK FROM ENGAGIN	NG COMPL	LETELY.
		CESSNA	CONT	MCAULY	PRESTOLITE	HOUSING	CRACKED		1/20/97
434		310R	IO520M	3AF32C87	ALV9402	260000160	DC GENERATOR-ALT	167	AU970072
	(AUS) ALTERNATO	OR MAIN BEARING COI	LLAPSED AND OUTI	ER HOUSING CRACKI	ED				
		CESSNA	CONT	MCAULY		BELLCRANK	BROKEN		2/4/97
230		310R	IO520M	3AF32C87		08411065	LANDING GEAR RET		AU970080
	, ,	ANDING GEAR RETRAC WING FASTENER COLI				0 0840142-1 BENT - LANDII	NG GEAR RETRACTION RO	OD PNO 08	340125-15 INCORRECTLY
		CESSNA	CONT	MCAULY		BRACKET	CRACKED		2/3/97
720		310R	IO520M	3AF32C87			TIP TANK ATTACH		AU970067
	(AUS) I H WING TI	PTANK ATTACHMENT	BRACKET CRACKE	D IN AREA OF TOP R	EAR RADIUS				
	(AUS) LII WING II	TANKATIACHWENI							
	(AUS) EII WING II	CESSNA	CONT		CESSNA	PRESS SWITCH	CONTAMINATED	2750	8/1/94

(CAN) GEAR WOULD NOT RETRACT COMPLETELY NOR EXTEND FROM WHERE IT STOPPED. PRESSURE SWITCH TURNED SYSTEM OFF TOO EARLY. PUMP & PRESSURE SWITCH HAD

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
		CESSNA	CONT	MCAULY		TORQUE LINK	STIFF		2/3/97
222		402C	TSIO520VB	3AF32C93		08410021	NOSE GEAR		AU970082
		DING GEAR TORQUE LI GEAR DOORS -PERSON			OWER ATTACHMEN	T BOLT BEING OVERTOR	QUED - NOSE OLEO WO	ULD NOT F	ULLY EXTEND CAUSING
		CESSNA			CESSNA	BRACKET	CRACKED		8/29/94
230		402B				5011013	LANDING GEAR		CA940913301
	(CAN) THE CASTII	NG THAT HOLDS LANI	DING GEAR TRANSM	IISSION & MOTOR CR	ACKED AT CENTRE	BOLT. CRACK WAS NOTI	CED OPENING DURING	GEAR RETF	RACTION.
		CESSNA	CONT			SELECTOR VALVE	FAULTY		1/21/97
234		402C	TSIO520VB			99102251	GEAR SELECTOR		AU970105
	'	ALVE COULD NOT BE				PREVIOUS FLIGHT - THE ALVE FAILED - SUSPECT I			
		CESSNA		MCAULY		SWITCH	FAULTY		1/30/97
260		402B		3AF32C87		JE6	MLG DOWNLOCK		AU970081
	(AUS) LH MAIN LA	ANDING GEAR DOWNL	OCK MICROSWITCH	I LEAF SPRING BROK	EN				
		CESSNA		MCAULY		BEAM	BUCKLED		9/14/94
120		402A		3AF32C87			ENG SUPPORT LH		CA940914042
	(CAN) LH OUTBOA	ARD ENGINE SUPPORT	BEAM HAD 2 BUCK	LED AREAS FORWAR	D & AFT OF ENGINE	E SUPPORT MOUNT. POSSI	BLY A RESULT OF A HA	RD LANDIN	1G.
		DHAV				FITTING	CRACKED		8/29/94
343		DHC3				12730	FLOAT ATTACH		CA940912101
	(CAN) RH FORWA	RD UPPER FLOAT STRI	UT TO FUSELAGE FI	TTING CRACKED, REI	PLACED.				
		EMB	PWA	HARTZL		WIPER ARM	BIRD STRIKE		2/3/97
040		EMB110P1	PT6A34	HCB3TN3			WINDSHIELD		AU970079
	` '	SUFFERED BIRDSTRIKE NIL OTHER DAMAGE	E - IMPACT DAMAGI	E ON NLG LEG AND IN	N AREA OF COPILOT	S WINDSCREEN WIPER A	RM ACTUATOR POST RE	ESULTING I	N MINOR BENDING OF
		EMB	PWA	HARTZL		SUPPORT	CRACKED		2/1/97
53		EMB110P1	PT6A34	HCB3TN3		110262192	TE FLAP STRUCTUE	₹	AU970088
	(AUS) WING FLAP	SUPPORT ASSEMBLY	CRACKED - FOUND	DURING INSPECTION	I IAWOSIP 2706 - SUS	SPECT ORIGINAL FITMENT	PNO 4A-2621-46		
		GULSTM		ROTOL		DETECTOR	FAULTY		2/11/97
512		695B		R306382F7		1734361450	RT ENG DET SYS		AU970095
	'					Y - SUSPECT RH ENGINE E E OF LEAKAGE THE SEAL		652-69 MAY	HAVE BEEN LEAKING
		PIPER	LYC	SNSNCH		SEAT BELT	UNAPPROVED PAR	Т	1/22/97
510		PA22108	O235C1B	M76AM			FLIGHT COMPART		AU970104
	(AUS) NON-APPRO	OVED HARDWARE AND	WEBBING USED IN	SEAT BELTS - UNAPP	PROVED PART - PER	SONNEL/MAINTENANCE I	ERROR		
		PIPER				SUPPORT	CRACKED	5487	6/13/94
710		PA28180				6210201	LH & RH WINGS		CA940914047
	` /	ND RH AILERON BELL RT REPLACED, LH SUPI		OUND CRACKED AT	FORWARD FLANGE	RADIUS DURING 100 HOU	IR INSPECTION. BOTH C	CRACKS API	PROXIMATELY 3/4 INCH

<u>INTERNA</u>	TIONAL SERVICI	E DIFFICULTY RE	PORT SUMMARY	- AIRCRAFT (co	ont'd)		<u>11/16/97 To 1</u>	1/22/97	ISSUE: 97-47	ZAC-327
ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CON	
		PIPER	LYC		PUROLATOR	O-RING	FAULTY		2/13/97	
2912		PA31	TIO540A2B		PR301	MS28775217	HYDRAULIC FILTER		AU970099	
	(AUS) HYDRAULIC	SYSTEM PUROLATOR	FILTER `O' RING SEA	L FAULTY - OIL LEA	KING - NOSE WHEEL	FAILED TO EXTEND - DA	MAGE TO FORWARD F	USELAGE A	ND PROPELLER	S
		PIPER	LYC			SWITCH	CORRODED		6/16/94	
3260		PA31	TIO540A2C			487862	RH MLG		CA94091403	9
	` /	WNLOCK MICROSWITO POSITS & A BIT OF COI		ΓΕ ELECTRICAL CIF	RCUIT AFTER MANY	ATTEMPTS. ON RETURN T	O BASE IT THEN WORK	KED OK. MI	CROSWITCH PLI	JNGER
		PIPER	LYC	HARTZL		DRIVE BELT	UNAPPROVED PART		2/2/97	
2410		PA32300	IO540K1A5	HCC2YK1		76026	ALTERNATOR-GENE	]	AU970087	
		TA MOTOR VEHICLES				IVE BELT FITTED WAS IN PNO 77579 WAS EXCESSIV				
		SOCATA	LYC	SNSNCH		TORQUE LINK	BROKEN	•	2/18/97	

TB1041033000

MLG

TB9

O320D2A

(AUS) RH MAIN LANDING GEAR LOWER TORQUE LINK FAILED AT LOWER ATTACHMENT HOLES

74DM

3213

AU970107

#### **INTERNATIONAL SERVICE DIFFICULTY REPORT SUMMARY - HELICOPTERS**

11/16/97	- 11/22/97	ISSUE: 97-47	ZAC-327

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
		BELL	PWA			PIPE	WATER CONTAM		8/24/94
2620		212	PT6T3			212060936001	ENGINE HALON		CA940909501
	THE ELBOW. THE		TER IS PROBABLY DU			DELIVERS HALON TO THE AIRCRAFT, DURING WHI			
		ROBSIN	LYC			FRAME	CRACKED		1/3/97
5311		R22MARINER	O320B2C			A0202	FUSELAGE	888	AU970098
	(AUS) FUSELAGE U	JPPER FRAME CRACKI	ED IN AREA UNDER M	IAIN GEARBOX MOU	UNT PADS AS REFER	RED IN AD/R22/41 AMDT1			
		SKRSKY	GE			BLADE	DEBONDED	7000	7/28/94
6210		S61N	CT58*			6117020201067	MAIN ROTOR		CA940906002
	` '	,				NARY LANDING AND SHU TO SIKORSKY FOR INSPE		OUT. THE N	IR4 POCKET OF THE RED

(End of INTERNATIONAL SERVICE DIFFICULTY REPORT SUMMARY - HELICOPTERS)

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
		ВЕЕСН	LYC		LYC	LIFTER	COLLAPSED		8/20/94
530		A100	O320E2D			7829	NR3 CYL INT		CA940914023
						BASE. TROUBLESHOOTIN R WAS INSTALLED & THE A			
		BEECH	CONT	MCAULY	BENDIX	GEAR	MELTED		2/6/97
414		95B55	IO470L	2AF34C55	S6RN1205	IO349237	MAGNETO/DISTRI	BU	AU970070
	(AUS) LH ENGINE	RH MAGNETO DISTRIE	BUTOR GEAR MELTI	ED - HT CONTACT SEI	PARATED FROM GE	EAR - BEARING FAILED - LA	ARGE PIECE OF SLOW S	SPEED DISTI	RIBUTOR GEAR MISSING
		CESSNA	CONT	MCAULY	CONT	CYLINDER	WORN		2/3/97
530		182Q	O470U	C2A34C204	O470U	646267CA4	RECIP ENG		AU970084
	` '					DER. PISTON RING CAUGH HOUT ADEQUATE LUBRIC		AUSING IT T	O BREAK. ENGINE HAS
		CESSNA	CONT	MCAULY		PUMP	FAILED		1/19/97
314		404CESSNA	GTSIO520M	3FF32C501		6328183	ENGINE FUEL		AU970101
	(AUS) LH ENGINE	DRIVEN FUEL PUMP IN	TERNAL FAILURE -	INVESTIGATION BY	OVERHAUL SHOP O	COULD FIND NO FAULTS			
		CESSNA	GARRTT	HARTZL	GARRTT	NOZZLE	LEAKING		1/31/97
313		441	TPE3318	HCB3TN5	TPE3318403S	31029542	FUEL INJECTOR		AU970065
	(AUS) FUEL NOZZ	LE BODY LEAKING - IN	NVESTIGATION FOU	ND TWO PIN HOLES I	IN THE BODY BASE	- NOZZLES WERE A NEW I	TEM		
		EMB	PWA	HARTZL		BLADE	DAMAGED		1/17/97
250		EMB110P2	PT6A34	HCB3TN3		3013411	TURBINE	5074	AU970069
	` /	RESSOR TURBINE BLAI NE CONTAINMENT RING			JDED BENDING OF	BLADE LEADING EDGES A	ND MISSING SECTIONS	S - INVESTIG	ATION FOUND FOD TO
		GULSTM	LYC			CONNECTING ROD	BROKEN		1/27/97
520		GA7	O320D1D				NR 4 CYL		AU970062
	(AUS) NO4 CYLIN	DER CONNECTING ROI	D BROKEN IN AREA	JUST BELOW PISTON	I PIN BOSS				
		PIPER	LYC	SNSNCH	LYC	VALVE SEAT	LOOSE	1364	8/22/94
30		PA18135	O320B2B	74DM	C875907CP	72058	NR 3 CYL EXH		CA940914004
	` /	NG APPROACH ENGINE KHAUST VALVE IN THE				NR3 CYLINDER HAD NO C	OMPRESSION. EXHAU	ST VALVE S	EAT HAD DISLODGED
		PIPER	LYC	MCAULY	LYC	DOWEL	SHEARED		1/29/97
520		PA25235	O540B2C5	1A200FA	O540B2C5	69796	ENG RT CASE		AU970109
	` /	CASE NO3 DOWEL SHE ERCEDED (STEPPED) T		OVEMENT OF THE M	AINBEARINGS - WE	EAR ALSO TO CRANKCASE	TUNNEL AND SCORIN	G OF THE C	RANKCASE JOURNAL -
		PIPER	LYC	MCAULY	SUPAIRPART	PISTON	CRACKED		1/29/97
530		PA25235	O540B2C5	1A200FA	SL36000NA20	SL75089	CYLS 1- 3- 5		AU970110
						S - NO1, N3 AND NO5 INDU ITION - PISTONS ARE HIGH			
		PIPER	LYC	HARTZL	LYC	CRANKCASE	CRACKED	547	8/29/94
520		PA31	TIO540A2B	HCE3YR1		LW12030	NR1 CYLINDER		CA940902030
	(CAN) DURING IN	SPECTION THE CRANK	CASE WAS FOUND	CRACKED BELOW NR	R1 CYLINDER.				

11/16/97 To 11/22/97 ISSUE: 97-47 ZAC-327

ATA REG. NO ACFT MAKE ENG MAKE PROP MAKE **COMP MFG** PART NAME PART COND TT **DIFF. DATE OPER** TSO ACFT MODEL PROP MDL COMP MDL PART NUMBER PART LOC. OPER CONT NO **SERIAL NO** ENG MDL

(End of INTERNATIONAL SERVICE DIFFICULTY REPORT SUMMARY - ENGINES)

### INTERNATIONAL SERVICE DIFFICULTY REPORT SUMMARY - COMPONENTS 11/16/97 - 11/22/97 ISSUE: 97-47 ZAC-327

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
		BEECH	PWA	MCAULY		WIRE	FAULTY		1/23/97
2310		200BEECH	PT6A42	4HFR34C754		22GAWIRE	HF COMMUNICATIO	1	AU970103
	` '	E IT IS SUSPECTED THA				G THE LAMP TO THE 15AM ING THE WIRE TO THEN B			
		PIPER	LYC	HARTZL		BATTERY	LEAKING		1/22/97
2562		PA32300	IO540K1G5	HCC2YK1	E01	MN1300	ELT		AU970089
	(AUS) ELT BATTER	RY LEAKING - AIRCRAI	FT OPERATES IN THE	TROPICS - SEE MDF	R96/2008 FOR SIMILA	R DEFECT			

(End of INTERNATIONAL SERVICE DIFFICULTY REPORT SUMMARY - COMPONENTS)

#### INTERNATIONAL SERVICE DIFFICULTY REPORT SUMMARY - PROPELLERS

11/16/97 - 11/22/97 ISSUE: 97-47 ZAC-327

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
		BEECH	CONT	HARTZL		SPRING	FAULTY		2/3/97
6111		58	IO520C	PHCJ3YF2		A1588B	PROPELLER BLADE	1714	AU970077
	(AUS) PROPELLER	R LATCH SPRING KIT FO	OUND TO BE MADE I	UP OF SUPERCEEDED	PARTS - FITTED AT	LAST OVERHAUL IN USA	- PERSONNEL/MAINTEN	ANCE ERR	OR
		BEECH	CONT	MCAULY		SEAL	PINCHED		2/7/97
6110		95B55	IO470L	2AF34C55			PROP BLADE NUT		AU970093
	( )					EVED BY THE USE OF SIL ROPELLER HAD BEEN MC			
		BEECH	CONT	MCAULY		PROPELLER	LOOSE		2/6/97
6110		95B55	IO470L	2AF34C55			PROPELLER ASSEME	3	AU970071
						OLLOWING REMOVAL OF E HOURS PREVIOUSLY (D			
		CESSNA	LYC	MCAULY		BLADE	BROKEN	1732	9/2/94
6111		177B	O360A1F6	B2D34C211		B40802	PROP	351	CA940914001
	(CAN) IN CRUISE	AT 12,500 FEET, ABOUT	SIX INCHES OF BLA	DE BROKE OFF ONE	PROPELLER BLADE	E			
		CESSNA	CONT	MCAULY	MCAULY	HUB	CRACKED	1487	8/20/94
6114		U206F		D3A32C90			PROP	1487	CA940912102
	( - )	IE PILOTS WALK AROU PECTION WAS CARRIE		,		PELLER & ENGINE COWLS	. THE PROPELLER WAS R	REMOVED &	E SENT TO A REPAIR
		CESSNA		HARTZL		LATCH	CRACKED		2/14/97
6111		441		HCB3TN5		83023	PROPELLER BLADE	2958	AU970092
	(AUS) PROPELLER	R STARTING LATCH CR	ACKED						
		CESSNA		HARTZL		SLIP RING	SEPARATED		2/14/97
6112		441		HCB3TN5		4E1614	PROPELLER DE-ICE	3011	AU970094
	(AUS) PROPELLER	R SLIP RING SEPARATIN	NG FROM DE-ICE PLA	ATTER - SUSPECT NO	NAPPROVED REPAI	R CARRIED OUT			
(End of IN	TERNATIONAL SEI	RVICE DIFFICULTY I	REPORT SUMMAR	Y - PROPELLERS)					



# SERVICE DIFFICULTY REPORT SUMMARY GENERAL AVIATION - INDEX



The following information provides a tally of the Service Difficulty Reports (SDR's) contained in this weeks issue of the General Aviation SDR Summary. The totals represent only a summation of the SDR's that were submitted to the FAA, Aviation Data Systems Branch, AFS-620, and processed in time for inclusion in the Summary. The first table is a tally of the number of SDR's submitted through the indicated Flight Standards District Office (FSDO). The second table sorts the SDR's by the aircraft or equipment make and model. The heading at the top of each table provides a two digit Joint Aircraft System/Component (JASC) code grouping (e.g., JASC codes 1100 thru 1800 are represented by the heading labeled 11-18) which categorizes in general, the problem areas for each reported discrepancy.

The Flight Standards Service Difficulty Program objective is to achieve prompt and appropriate correction of conditions adversely affecting continued airworthiness of aeronautical products. This is accomplished by the collection of Service Difficulty and Malfunction or Defect Reports. SDR's are consolidation and collation into common data base where they are analyzed for trends, problems, and alert information. This information is then disseminated to the appropriate segments of the aviation community and to other FAA offices.

The number of SDR's submitted is not an indicator of the mechanical reliability or fitness of an air carrier's aircraft fleet and should not be used as such. The air carriers certificate holding office has the primary responsibility for planning, programming evaluations, and assessing the performance of operators. Questions regarding an air carrier's fleet performance should be directed to the appropriate Flight Standards District Office, Certificate Management Office, or Certificate Management Unit.

#### 11/16/97 To 11/22/97 ISSUE: 97-47 ZAC-327

## **GENERAL AVIATION SUMMARY INDEX BY DISTRICT OFFICE**

DISTRICT				LS BY FAA A					
OFFICE	11-18	21-29	30-38	45-49	51-57	61-67	71-79	80-85	TOTAL
AL 01	0	0	0	0	0	1	1	1	3
AU S	0	12	6	0	7	5	4	4	38
CA	0	3	6	0	4	3	1	3	20
EA 07	0	0	0	0	1	0	2	0	3
EA 13	0	1	0	0	0	0	0	0	1
EA 17	0	0	0	0	0	0	1	0	1
EA 23	0	0	2	0	0	0	0	0	2
GL 05	0	0	1	0	2	0	0	0	3
GL 11	0	0	0	0	1	0	0	0	1
GL 19	0	0	0	0	0	0	0	1	1
GL 21	0	1	0	0	0	0	0	0	1
GL 27	0	0	0	0	0	0	0	1	1
NE 01	0	1	0	0	0	3	0	0	4
NE 05	0	0	0	0	1	0	0	0	1
NM 03	0	0	0	0	0	1	0	0	1
NM 09	0	1	0	0	0	1	1	0	3
NM 11	0	0	0	0	0	1	2	0	3
SO 01	0	0	0	0	0	0	1	0	1
SO 03	0	0	1	0	3	0	0	0	4
SO 05	0	0	1	0	0	0	1	0	2
SO 07	0	0	0	0	0	1	0	0	1
SO 09	0	1	0	0	0	0	0	0	1
SO 13	0	1	0	0	0	0	2	0	3
SO 16	0	0	1	0	0	0	0	1	2
SO 17	0	0	0	0	0	0	1	0	1
SW 01	0	0	1	0	4	0	0	0	5

<b>GENERAL AVIATIO</b>	N SUMMARY	11/16/97 To 11/22/97 ISSUE: 97-47 ZAC-327							
DISTRICT OFFICE	11-18	21-29	SDR TOTA 30-38	LS BY FAA A 45-49	TA SYSTEM ( 51-57	CHAPTER 61-67	71-79	80-85	TOTAL
SW 03	0	39	54	0	17	55	37	0	202
SW 05	0	0	0	0	0	0	0	1	1
SW 13	0	1	0	0	0	0	0	0	1
SW 15	0	0	0	0	0	0	0	1	1
SW 19	0	0	0	0	0	0	1	0	1
SW 99	0	0	1	0	0	0	0	2	3
WP 09	0	0	0	0	1	0	0	0	1
TOTALS	0	61	74	0	41	71	55	15	317
(End of GENERAL AVIATION SUMMARY INDEX by DISTRICT OFFICE Report)									

AIRCRAFT	AIRCRAFT					TA SYSTEM (				
MAKE	MODEL	11-18	21-29	30-38	45-49	51-57	61-67	71-79	80-85	TOTAL
AEROSP	SA315B	0	0	0	0	0	1	0	0	1
AEROSP	SA365N1	0	0	0	0	0	0	2	0	2
AGUSTA	A109C	0	0	0	0	1	0	0	0	1
BBAVIA	7GCBC	0	0	0	0	0	0	1	0	1
BEECH	100BEECH	0	0	0	0	1	0	0	0	1
BEECH	200BEECH	0	3	0	0	0	1	0	0	4
BEECH	200BEECH	0	1	0	0	1	0	0	0	2
BEECH	200CBEECH	0	0	0	0	0	0	1	0	1
BEECH	58	0	1	0	0	0	1	0	1	3
BEECH	58P	0	0	1	0	4	0	0	0	5
BEECH	76	0	0	0	0	0	0	0	1	1
BEECH	95B55	0	0	0	0	0	2	1	0	3
BEECH	95C55	0	0	0	0	0	0	0	1	1
BEECH	A100	0	0	1	0	0	0	0	1	2
BEECH	A2324	0	1	0	0	0	0	0	0	1
BEECH	C23	0	0	0	0	0	0	0	1	1
BEECH	C90A	0	0	1	0	0	0	0	0	1
BEECH	D55	0	0	0	0	1	0	0	0	1
BELL	205A1	0	0	0	0	0	0	1	0	1
BELL	205A1	0	0	0	0	0	1	0	0	1
BELL	206B	0	0	0	0	0	0	1	0	1
BELL	206B3	0	1	0	0	0	0	0	0	1
BELL	206B3	0	0	0	0	0	2	0	0	2
BELL	206L1	0	5	6	0	4	7	4	0	26
BELL	206L3	0	4	12	0	3	2	2	0	23
BELL	212	0	3	4	0	1	3	0	0	11
BELL	214ST	0	9	3	0	0	4	0	0	16

GENERAL AV	TATION SUMMARY	11/16/97 To 11/22/97 ISSUE: 97-47 ZAC-327								
AIRCRAFT MAKE	AIRCRAFT MODEL	11-18	21-29	SDR TOTA 30-38	ALS BY FAA A 45-49	TA SYSTEM 51-57	CHAPTER 61-67	71-79	80-85	TOTAL
BELL	222U	0	0	0	0	0	0	1	0	1
BELL	230	0	0	0	0	0	2	0	0	2
BELL	407	0	0	1	0	0	5	4	0	10
BELL	412	0	10	18	0	8	3	10	0	49
BNORM	BN2A20	0	1	0	0	0	0	0	0	1
BNORM	BN2B20	0	1	0	0	0	0	0	0	1
BOLKMS	BK117A3	0	0	0	0	0	1	2	0	3
BOLKMS	BK117A4	0	1	0	0	0	0	0	0	1
BOLKMS	BK117A4	0	0	0	0	0	0	1	0	1
BOLKMS	BK117B2	0	1	0	0	0	1	1	0	3
BOLKMS	BO105CBS	0	0	0	0	0	1	0	0	1
BOLKMS	BO105S	0	0	4	0	0	10	8	0	22
CAMAIR	480	0	0	0	0	1	0	0	0	1
CESSNA	152	0	0	0	0	1	0	0	0	1
CESSNA	172D	0	1	0	0	0	0	0	0	1
CESSNA	172F	0	0	0	0	1	0	0	0	1
CESSNA	172H	0	1	0	0	0	0	2	0	3
CESSNA	172N	0	0	0	0	3	0	0	0	3
CESSNA	172RG	0	0	1	0	0	0	0	0	1
CESSNA	172RG	0	1	0	0	0	0	0	0	1
CESSNA	177B	0	0	0	0	0	1	0	0	1
CESSNA	182E	0	0	0	0	1	0	0	0	1
CESSNA	182G	0	0	1	0	0	0	0	0	1
CESSNA	182Q	0	0	0	0	0	0	0	1	1
CESSNA	208	0	1	0	0	0	0	0	0	1
CESSNA	208B	0	0	0	0	0	3	0	0	3
CESSNA	210H	0	0	1	0	0	0	0	0	1

GENERAL AV	TATION SUMMARY I	11/16/97 To 11/22/97 ISSUE: 97-47 ZAC-327								
AIRCRAFT MAKE	AIRCRAFT MODEL	11-18	21-29	SDR TOTA 30-38	LS BY FAA A 45-49	TA SYSTEM 51-57	CHAPTER 61-67	71-79	80-85	TOTAL
CESSNA	210N	0	0	1	0	0	0	0	0	1
CESSNA	310R	0	1	2	0	1	0	0	0	4
CESSNA	402A	0	0	0	0	0	0	1	0	1
CESSNA	402B	0	0	1	0	0	0	0	0	1
CESSNA	402B	0	0	1	0	0	0	0	0	1
CESSNA	402C	0	0	3	0	0	0	0	0	3
CESSNA	404CESSNA	0	0	0	0	0	0	1	0	1
CESSNA	441	0	0	0	0	0	2	1	0	3
CESSNA	525	0	1	0	0	0	0	0	0	1
CESSNA	A152	0	0	0	0	1	0	0	0	1
CESSNA	S550	0	0	0	0	2	0	0	0	2
CESSNA	T188C	0	0	0	0	0	1	0	0	1
CESSNA	T210L	0	0	0	0	1	0	0	0	1
CESSNA	T210M	0	0	0	0	0	0	0	1	1
CESSNA	T210N	0	0	0	0	0	0	1	0	1
CESSNA	T337G	0	1	0	0	0	0	0	0	1
CESSNA	U206F	0	0	0	0	0	1	0	0	1
DHAV	DHC3	0	0	0	0	1	0	0	0	1
DHAV	DHC6300	0	0	0	0	0	0	1	0	1
EMB	EMB110P1	0	0	1	0	1	0	0	0	2
EMB	EMB110P2	0	0	0	0	0	0	1	0	1
GULSTM	695B	0	1	0	0	0	0	0	0	1
GULSTM	GA7	0	0	0	0	0	0	0	1	1
MOONEY	M20L	0	0	1	0	0	0	0	0	1
PIPER	PA18135	0	0	0	0	0	0	0	1	1
PIPER	PA22108	0	1	0	0	0	0	0	0	1
PIPER	PA23250	0	0	0	0	0	0	0	1	1

AIRCRAFT	IATION SUMMARY IN AIRCRAFT									
MAKE	MODEL	11-18	21-29	30-38	45-49	TA SYSTEM ( 51-57	61-67	71-79	80-85	TOTAL
PIPER	PA25235	0	0	0	0	0	0	0	2	2
PIPER	PA28151	0	0	0	0	1	0	0	0	1
PIPER	PA28161	0	0	0	0	0	0	0	1	1
PIPER	PA28180	0	1	0	0	0	0	0	0	1
PIPER	PA28R200	0	0	2	0	0	0	0	0	2
PIPER	PA31	0	0	1	0	0	0	0	1	2
PIPER	PA31	0	1	0	0	0	0	0	0	1
PIPER	PA31350	0	0	0	0	0	0	1	0	1
PIPER	PA31350	0	0	0	0	0	0	0	1	1
PIPER	PA31P	0	0	0	0	0	0	1	0	1
PIPER	PA32260	0	0	0	0	0	0	1	0	1
PIPER	PA32300	0	2	0	0	0	0	0	0	2
PIPER	PA32R301	0	1	0	0	0	0	0	0	1
PIPER	PA34200T	0	1	0	0	0	0	0	0	1
PIPER	PA44180	0	0	1	0	0	0	0	0	1
ROBSIN	R22MARINER	0	0	0	0	1	0	0	0	1
ROBSIN	R44	0	1	0	0	0	0	0	0	1
SKRSKY	S61N	0	0	0	0	0	1	0	0	1
SKRSKY	S76A	0	3	4	0	1	5	0	0	13
SNIAS	AS350B2	0	0	1	0	0	10	4	0	15
SOCATA	TB9	0	0	1	0	0	0	0	0	1
	TOTALS	0	61	74	0	41	71	55	15	317

(End of AIR CARRIER SUMMARY INDEX by OPERATOR Report)

# JOINT AIRCRAFT SYSTEM/COMPONENT CODE TABLE

#### **PREFACE**

The Joint Aircraft System/Component (JASC) Code Table is a modified version of the Air Transport Association of America (ATA), Specification 100 code. It was developed by the Federal Aviation Administration's (FAA), Aviation Data Systems Branch (AFS-620). Technical support was provided by the Galaxy Scientific Corporation, and various representatives of the air carrier and general aviation community.

Over the past four years, the JASC format of the ATA Spec 100 code has gained widespread industry acceptance. In a harmonized effort, the FAA's counterparts in Australia and Canada have adopted the JASC code with only a few exceptions. Some Canadian aircraft manufacturers have also recently adopted this new stardard.

This code table is constructed by using the new JASC four (4) digit code, along with an abbreviated code title. The abbreviated titles have been modified in some cases to clarify the intended use of the accompanying code. This table can be used as a quick reference chart, to assist in the coding and review of aircraft structures or systems data (i.e., Service Difficulty Report (SDR), Accident/Incident Report).

The current coding scheme used in the JASC code was introduced in May 1991, for the technical classification of SDR's. Its predecessor, the FAA aircraft system/component code, was a similar but more complex eight-digit code which was developed over 25 years ago. It was constructed around the computer technology of that period. It consisted of a four digit numerical code plus a four alpha character code to make data retrieval possible. Since that time, computer technology has advanced many fold. Reducing the code from eight to four characters simplifies coding, and in some cases, makes JASC coding match the ATA Specification 100 first three digits, which are used to identify aircraft systems. The ATA code does not reference the fourth digit, so it is free to be used for identifying components.

The JASC code aircraft structural section has increased due to problems inherent with aging aircraft. As an example, FAA code 5301 SXBD was expanded to 20 items due to the high rate of reporting in this area (8021 structural reports were received in 1989). In some instances, there was very little reporting and codes were combined into other systems if the safety impact was not significant. The overall reduction in codes has been from 568 FAA codes to 488 JASC codes, with the significant increase being in the structural area as stated earlier.

The JASC code divides the engine section into two major code groups to separate the turbine and reciprocating engines. The codes for the turbine engines are in JASC Chapter 72, Turbine/Turboprop Engine. The codes for the reciprocating engines are now exclusively found in JASC Chapter 85, Reciprocating Engine.

The other major deviation from ATA Spec 100 is in ATA section 2730, specifically involves the stall warning system. Early technology (primarily on smaller aircraft) directly linked the sensing of flight attitude to one of the components which furnished the means of manually controlling the flight attitude characteristics (elevator). Today, most large transport category aircraft utilize electronic units to sense the change in the environmental condition called stall, and use the data to influence navigation. ATA section 3410, Flight Environment Data, includes high speed warning in its code definition. Stall warning (low speed) is the reciprocal term of high speed warning, so its filing under the same code appears more logical. Thus, with the JASC code it was decided to move the stall warning system to Chapter 34 under the separate code JASC code 3418, Stall Warning System.

The FAA is continuing to pursue worldwide involvement from operators and manufacturers in addressing the need for international standardization of aircraft system/component codes. The ultimate goal is to develop a universal aircraft/component numbering standard which can be used in the manufacturer's maintenance manual, wiring diagram manual, system manuals and illustrated parts catalog. This harmonized standard must be a usable standard for the aircraft manufacturers, air carrier operators and the general aviation community.

We welcome comments and feedback regarding the possible forming of working groups to achieve this long range consideration of possibly harmonizing the ATA Specification 100 code and the JASC code. Comments may be directed to the FAA, Aviation Data Sytem Branch, AFS-620, P.O. Box 25082, Oklahoma City, OK 73125.

# **JOINT AIRCRAFT SYSTEM/COMPONENT CODE TABLE**

# JASC/ TITLE

2170 HUMIDITY CONTROL SYSTEM

11 PLACARDS AND	MARKINGS 22	AUTO FLIGHT	24 E	LECTRICAL POWER CONT'D
1100 PLACARDS AND N	MARKINGS 2200	AUTO FLIGHT SYSTEM	2424	AC REGULATOR
	2210		2425	AC INDICATING SYSTEM
12 SERVICING	2211	AUTOPILOT COMPUTER	2430	DC GENERATING SYSTEM
12 021(11011(0	2212	ALTITUDE CONTROLLER	2431	BATTERY OVERHEAT WARN. SYSTEM
1010 51151 0551/101110	2213	FLIGHT CONTROLLER	2432	BATTERY/CHARGER SYSTEM
1210 FUEL SERVICING	2214	AUTOPILOT TRIM INDICATOR	2433	DC RECTIFIER-CONVERTER
1220 OIL SERVICING	2215	AUTOPILOT MAIN SERVO	2434	DC GENERATOR-ALTERNATOR
1230 HYDRAULIC FLUID	2216	AUTOPILOT TRIM SERVO	2435	STARTER-GENERATOR
1240 COOLANT SERVIC	ING 2220	SPEED-ATTITUDE CORRECT. SYSTEM	2436	DC REGULATOR
40 HELICOPTED VIDE	2230	AUTO THROTTLE SYSTEM	2437	DC INDICATING SYSTEM
18 HELICOPTER VIBE	2250	A ERODYNAMIC LOAD ALLEVIATING	2440	EXTERNAL POWER SYSTEM
1800 HELICOPTER VIB/I	NOISE ANALYSIS		2450	AC POWER DISTRIBUTION SYSTEM
1810 HELICOPTER VIBR	ATION ANALYSIS 23	COMMUNICATIONS	2460	DC POWER/DISTRIBUTION SYSTEM
1820 HELICOPTER NOIS	E ANALYSIS			
24 AIR CONDITIONIA	2300		<u> 25 E</u>	QUIPM ENT/FURNISHINGS
21 AIR CONDITIONIN			0500	CARIN FOURMENT/FURNIOUMO
2100 AIR CONDITIONIN	G SYSTEM 2311	UHF COMMUNICATION SYSTEM	2500	CABIN EQUIPMENT/FURNISHINGS
2110 CABIN COMPRESS	2312	VHF COMMUNICATION SYSTEM	2510	FLIGHT COMPARTMENT EQUIPMENT
2120 AIR DISTRIBUTION	2220	DATA TRANSMISSION AUTO CALL	2520	PASSENGER COMPARTMENT EQUIPMENT
2121 AIR DISTRIBUTION	2330	ENTERTAINMENT SYSTEM	2530	BUFFET/GALLEYS
	CONTROL SYSTEM 2340	INTERPHONE & PA SYSTEM	2540	LAVATORIES
2131 CABIN PRESSURE	2250	AUDIO INTEGRATING SYSTEM	2550	CARGO COMPARTMENTS
2132 CABIN PRESSURE	2260	STATIC DISCHARGE SYSTEM	2551	AGRICULTURAL SPRAY SYSTEM
	/OUTFLOW VALVE 2370	AUDIO/VIDEO MONITORING	2560	EMERGENCY EQUIPMENT
2134 CABIN PRESSURE		ELECTRICAL POWER	2561	LIFE JACKET
2140 HEATING SYSTEM	- · · ·	<u> LEEGTRIOAL TOWER</u>	2562	EMERGENCY LOCATOR BEACON
2150 CABIN COOLING S		ELECTRICAL POWER SYSTEM	2563	PARACHUTE
	URE CONTROL SYSTEM 2410	ALTERNATOR-GENERATOR DRIVE	2564	LIFE RAFT
	URE CONTROLLER 2420		2565	ESCAPE SLIDE
2162 CABIN TEMPERAT			2570	ACCESSORY COMPARTMENT
2163 CABIN TEMPERAT	****		2571	BATTERY BOX STRUCTURE
	0112 02110011		2572	ELECTRONIC SHELF SECTION

2423 PHASE ADAPTER

26 FIRE PROTECTION	29 F	HYDRAULIC POWER	<u>32 L</u>	ANDING GEAR
2600 FIRE PROTECTION SYSTEM	2900	HYDRAULIC POWER SYSTEM	3200	LANDING GEAR SYSTEM
2610 DETECTION SYSTEM	2910	HYDRAULIC, MAIN SYSTEM	3201	LANDING GEAR/WHEEL FAIRING
2611 SMOKE DETECTION	2911	HYDRAULIC POWER-ACCUMULATOR-MAIN	3210	MAIN LANDING GEAR
2612 FIRE DETECTION	2912	HYDRAULIC FILTER-MAIN SYSTEM	3211	MAIN LANDING GEAR ATTACH SECTION
2613 OVERHEAT DETECTION	2913	HYDRAULIC PUMP. ELECT-ENGMAIN	3212	EMERGENCY FLOTATION SECTION
2620 EXTINGUISHING SYSTEM	2914	HYDRAULIC HANDPUMP-MAIN	3213	MAIN LANDING GEAR STRUT/AXLE/TRUCK
2621 FIRE BOTTLE, FIXED	2915	HYDRAULIC PRESSURE RELIEF VLV-MAIN	3220	NOSE/TAIL LANDING GEAR
2622 FIRE BOTTLE, PORTABLE	2916	HYDRAULIC RESERVOIR-MAIN	3221	NOSE/TAIL LANDING GEAR ATTACH SECTION
AZ FILOUT CONTROLO	2917	HYDRAULIC PRESSURE REGULATOR-MAIN	3222	NOSE/TAIL LANDING GEAR STRUT/AXLE
27 FLIGHT CONTROLS	2920	HYDRAULIC, AUXILIARY SYSTEM	3230	LANDING GEAR RETRACT/EXT. SYSTEM
2700 FLIGHT CONTROL SYSTEM	2921	HYDRAULIC ACCUMULATOR-AUXILIARY	3231	LANDING GEAR DOOR RETRACT SECTION
2701 CONTROL COLUMN SECTION	2922	HYDRAULIC FILTER-AUXILIARY	3232	LANDING GEAR DOOR ACTUATOR
2710 AILERON CONTROL SYSTEM	2923	HYDRAULIC PUMP-AUXILIARY	3233	LANDING GEAR ACTUATOR
2711 AILERON TAB CONTROL SYSTEM	2925	HYDRAULIC PRESSURE RELIEF-AUXILIARY	3234	LANDING GEAR SELECTOR
2720 RUDDER CONTROL SYSTEM	2926	HYDRAULIC RESERVOIR-AUXILIARY	3240	LANDING GEAR BRAKE SYSTEM
2721 RUDDER TAB CONTROL SYSTEM	2927	HYDRAULIC PRESSURE REGULATOR-AUX.	3241	BRAKE ANTI-SKID SECTION
2722 RUDDER ACTUATOR	2930	HYDRAULIC SYSTEM INDICATING	3242	BRAKE
2730 ELEVATOR CONTROL SYSTEM	2931	HYDRAULIC PRESSURE INDICATOR	3243	MASTER CYL/BRAKE VALVE
2731 ELEVATOR TAB CONTROL SYSTEM	2932	HYDRAULIC PRESSURE SENSOR	3244	TIRE
2740 STABILIZER CONTROL SYSTEM	2933	HYDRAULIC QUANTITY INDICATOR	3245	TIRE TUBE
2741 STABILIZER POSITION INDICATING	2934	HYDRAULIC QUANTITY SENSOR	3246	WHEEL/SKI/FLOAT
2742 STABILIZER ACTUATOR	30 I	CE AND RAIN PROTECTION	3250	LANDING GEAR STEERING SYSTEM
2750 TE FLAP CONTROL SYSTEM			3251	STEERING UNIT
2751 TE FLAP POSITION IND. SYSTEM	3000	ICE/RAIN PROTECTION SYSTEM	3252	SHIMMY DAMPER
2752 TE FLAP ACTUATOR	3010	AIRFOIL ANTI/DE-ICE SYSTEM	3260	LANDING GEAR POSITION & WARNING
2760 DRAG CONTROL SYSTEM	3020	AIR INTAKE ANTI/DE-ICE SYSTEM	3270	AUXILIARY GEAR (TAIL SKID)
2761 DRAG CONTROL ACTUATOR	3030	PITOT/STATIC ANTI-ICE SYSTEM	33 I	<u>IGHTS</u>
2770 GUST LOCK/DAMPER SYSTEM	3040	WINDSHIELD/DOOR RAIN/ICE REMOVAL		
2780 LE FLAP CONTROL SYSTEM	3050	ANTENNA/RADOME ANTI-ICE/DE-ICE SYSTEM	3300	LIGHTING SYSTEM
2781 LE FLAP POSITION IND. SYSTEM	3060	PROP/ROTOR ANTI-ICE/DE-ICE SYSTEM	3310	FLIGHT COMPARTMENT LIGHTING
2782 LE FLAP ACTUATOR	3070	WATER LINE ANTI-ICE SYSTEM	3320	PASSENGER COMPARTMENT LIGHTING
28 FUEL	3080	ICE DETECTION	3330	CARGO COMPARTMENT LIGHTING
2800 AIRCRAFT FUEL SYSTEM	<u>31 I</u>	<u>NSTRUMENTS</u>	3340 3350	EXTERIOR LIGHTING EMERGENCY LIGHTING
2810 FUEL STORAGE	3100	INDICATING/RECORDING SYSTEM		
2820 ACFT FUEL DISTRIB. SYSTEM	3110	INSTRUMENT PANEL	<u>34 N</u>	AVIGATION
2821 ACFT FUEL FILTER/STRAINER	3120	INDEPENDENT INSTRUMENTS (CLOCK, ETC.)	3400	NAVIGATION SYSTEM
2822 FUEL BOOST PUMP	3130	DATA RECORDERS (FLT/MAINT)	3410	FLIGHT ENVIRONMENT DATA
2823 FUEL SELECTOR/SHUTOFF VALVE	3140	CENTRAL COMPUTERS (EICAS)	3411	PITOT/STATIC SYSTEM
2824 FUEL TRANSFER VALVE	3150	CENTRAL WARNING	3412	OUTSIDE AIR TEMP. IND./SENSOR
2830 FUEL DUMP SYSTEM	3160	CENTRAL DISPLAY	3413	RATE OF CLIMB INDICATOR
2840 ACFT FUEL INDICATING	3170	AUTOMATIC DATA	3414	AIRSPEED/MACH INDICATING
2841 FUEL QUANTITY INDICATOR			3415	HIGH SPEED WARNING
2842 FUEL QUANTITY SENSOR			3416	ALTIMETER, BAROMETRIC/ENCODER
2843 FUEL TEMPERATURE INDICATING				

2844 FUEL PRESSURE INDICATOR

34 NAVIGATION CONT'D	37 VACUUM	5247 APU DOORS
3417 AIR DATA COMPUTER	3700 VACUUM SYSTEM	5248 TAIL CONE DOORS
3418 STALL WARNING SYSTEM	3710 VACUUM DISTRIBUTION SYSTEM	5250 FIXED INNER DOORS
3420 ATTITUDE AND DIRECTION DAT	A SYSTEM 3720 VACUUM INDICATING SYSTEM	5260 ENTRANCE STAIRS
3421 ATTITUDE GYRO & IND. SYSTEM	1	5270 DOOR WARNING SYSTEM
3422 DIRECTIONAL GYRO & IND. SYS	38 WAIER/WASIE	5280 LANDING GEAR DOORS
3423 MAGNETIC COMPASS	3800 WATER & WASTE SYSTEM	53 FUSELAGE
3424 TURN & BANK/RATE OF TURN II	NDICATOR 3810 POTABLE WATER SYSTEM	5300 FUSELAGE STRUCTURE (GENERAL)
3425 INTEGRATED FLT. DIRECTOR SY	STEM 3820 WASH WATER SYSTEM	5301 AERIAL TOW EQUIPMENT
3430 LANDING & TAXI AIDS	3830 WASTE DISPOSAL SYSTEM	5302 ROTORCRAFT TAIL BOOM
3431 LOCALIZER/VOR SYSTEM	3840 AIR SUPPLY (WATER PRESS. SYSTEM	M) 5310 FUSELAGE MAIN STRUCTURE
3432 GLIDE SLOPE SYSTEM 3433 MICROWAVE LANDING SYSTEM	45 CENTRAL MAINT. SYSTEM	5311 FUSELAGE MAIN FRAME 5312 FUSELAGE MAIN BULKHEAD
3434 MARKER BEACON SYSTEM	4500 CENTRAL MAINT. COMPUTER	5312 FUSELAGE MAIN BULKHEAD 5313 FUSELAGE MAIN LONGERON/STRINGER
3435 HEADS UP DISPLAY SYSTEM	Joseph General Marinetti Golini Gren	5314 FUSELAGE MAIN KEEL
3436 WIND SHEAR DETECTION SYSTI	49 AIRBORNE AUXILIARY POWER	5314 FUSELAGE MAIN REEL 5315 FUSELAGE MAIN FLOOR BEAM
3440 INDEPENDENT POS. DETERMINI	NO CYCTEM	5320 FUSELAGE MISCELLANEOUS STRUCTURE
3441 INERTIAL GUIDANCE SYSTEM	4900 AINBONNE AFO STSTEM	5321 FUSELAGE FLOOR PANEL
3442 WEATHER RADAR SYSTEM	4910 A PU COW LING/CONTAINMENT	5322 FUSELAGE INTERNAL MOUNT STRUCTURE
3443 DOPPLER SYSTEM	4920 APU CORE ENGINE	5323 FUSELAGE INTERNAL STAIRS
3444 GROUND PROXIMITY SYSTEM	4930 A PU ENGINE FUEL & CONTROL	5324 FUSELAGE FIXED PARTITIONS
3445 AIR COLLISION AVOIDANCE SY	4940 A PU START/IGNITION SYSTEM STEM (TCAS) 4950 A PU BLEED AIR SYSTEM	5330 FUSELAGE MAIN PLATE/SKIN
3446 NON RADAR WEATHER SYSTEM	4930 AFO BEEED AIR STOTEM	5340 FUSELAGE MAIN ATTACH FITTINGS
3450 DEPENDENT POSITION DETERM	NINC SYSTEM 4900 AFO CONTROLS	5341 WING ATTACH FITTINGS (ON FUSELAGE)
3451 DME/TACAN SYSTEM	4970 APO INDICATING SYSTEM	5342 STABILIZER ATTACH FITTINGS
3452 ATC TRANSPONDER SYSTEM		5343 LANDING GEAR ATTACH FITTINGS
3453 LORAN SYSTEM	4990 APU OIL SYSTEM	5344 FUSELAGE DOOR HINGES
3454 VOR SYSTEM	51 STANDARD PRACTICES/STRUCT	
3455 ADF SYSTEM		5346 DOWEDDIANT ATTACH FITTINGS
3456 OMEGA NAVIGATION SYSTEM	5100 STANDARD PRACTICES/STRUCTURE	5347 SEAT/CARGO ATTACH FITTINGS
3457 GLOBAL POSITIONING SYSTEM	5101 AIRCRAFT STRUCTURES	5350 FUSELAGE AERODYNAMIC FAIRINGS
3460 FLIGHT MANAGE. COMPUTING	SYSTEM 5102 BALLOON REPORTS	54 NACELLES/PYLONS
25 OVVCEN	52 DOORS	
35 OXYGEN	<u>52 DOORS</u>	5400 NACELLE/PYLON STRUCTURE
3500 OXYGEN SYSTEM	5200 DOORS	5410 MAIN FRAME (ON NACELLE/PYLON)
3510 CREW OXYGEN SYSTEM	5210 PASSENGER/CREW DOORS	5411 FRAME/SPAR/RIB(NACELLE/PYLON)
3520 PASSENGER OXYGEN SYSTEM	5220 EMERGENCY EXIT	5412 BULKHEAD/FIREWALL (NAC/PYLON)
3530 PORTABLE OXYGEN SYSTEM	5230 CARGO/BAGGAGE DOORS	5413 LONGERON/STRINGER (NAC/PYLON)
36 PNEUMATIC	5240 SERVICE DOORS	5414 PLATE SKIN (NAC/PYLONS)
	5241 GALLEY DOORS	5415 ATTACH FITTINGS (NAC/PYLON)
3600 PNEUMATIC SYSTEM	5242 F/E COMPARTMENT DOORS	<u>55 STABILIZERS</u>
3610 PNEUMATIC DISTRIBUTION SYS	TEM 5243 HYDRAULIC COMPARTMENT DOORS	5500 EMPENNAGE STRUCTURE
3620 PNEUMATIC INDICATING SYSTE	M 5244 ACCESSORY COMPARTMENT DOORS	
	5245 AIR CONDITIONING COMPART. DOOR	RS 5511 HORIZONTAL STABILIZER SPAR/RIB
	5246 FLUID SERVICE DOORS	5512 HORIZONTAL STABILIZER PLATE/SKIN
		5513 HORIZONTAL STABILIZER TAB STRUCTURE
		5520 ELEVATOR STRUCTURE

55 STABILIZERS CONT'D	61 PROPELLERS/PROPULSORS	67 ROTORS FLIGHT CONTROL
5521 ELEVATOR SPAR/RIB STRUCTURE	6100 PROPELLER SYSTEM	6700 ROTORCRAFT FLIGHT CONTROL
5522 ELEVATOR PLATES/SKIN STRUCTURE	6110 PROPELLER ASSEMBLY	6710 MAIN ROTOR CONTROL
5523 ELEVATOR TAB STRUCTURE	6111 PROPELLER BLADE SECTION	6711 TILT ROTOR FLIGHT CONTROL
5530 VERTICAL STABILIZER STRUCTURE	6112 PROPELLER DE-ICE BOOT SECTION	6720 TAIL ROTOR CONTROL SYSTEM
5531 VERTICAL STABILIZER SPAR/RIB STRUCTURE	6113 PROPELLER SPINNER SECTION	6730 ROTORCRAFT SERVO SYSTEM
5532 VERTICAL STABILIZER PLATES/SKIN	6114 PROPELLER HUB SECTION	
5533 VENTRAL STRUCTURE (ON VERT. STAB)	6120 PROPELLER CONTROL SYSTEM	71 POWERPLANT
5540 RUDDER STRUCTURE	6121 PROPELLER SYNCHRONIZER SECTION	7100 POWERPLANT SYSTEM
5541 RUDDER SPAR/RIB STRUCTURE	6122 PROPELLER GOVERNOR	7110 ENGINE COWLING SYSTEM
5542 RUDDER PLATE/SKIN STRUCTURE	6123 PROPELLER FEATHERING/REVERSING	7111 COWL FLAP SYSTEM
5543 RUDDER TAB STRUCTURE	6130 PROPELLER BRAKING	7112 ENGINE AIR BAFFLE SECTION
5550 EMPENNAGE FLT. CONT. ATTACH FITTING	6140 PROPELLER INDICATING SYSTEM	7120 ENGINE MOUNT SECTION
5551 HORIZONTAL STABILIZER ATTACH FITTING		7130 ENGINE FIRESEALS
5552 ELEVATOR/TAB ATTACH FITTINGS	62 MAIN ROTOR	7160 ENGINE AIR INTAKE SYSTEM
5553 VERT. STAB. ATTACH FITTINGS	6200 MAIN ROTOR SYSTEM	7170 ENGINE DRAINS
5554 RUDDER/TAB ATTACH FITTINGS	6210 MAIN ROTOR BLADES	
	6220 MAIN ROTOR HEAD	72 TURBINE/TURBOPROP ENGINE
56 WINDOWS	6230 MAIN ROTOR MAST/SWASHPLATE	7200 ENGINE (TURBINE/TURBOPROP)
5600 WINDOW/WINDSHIELD SYSTEM	6240 MAIN ROTOR INDICATING SYSTEM	7210 TURBINE ENGINE REDUCTION GEAR
5610 FLIGHT COMPARTMENT WINDOWS		7220 TURBINE ENGINE AIR INLET SECTION
5620 PASSENGER COMPARTMENT WINDOWS	63 MAIN ROTOR DRIVE	7230 TURBINE ENGINE COMPRESSOR SECTION
5630 DOOR WINDOWS	6300 MAIN ROTOR DRIVE SYSTEM	7240 TURBINE ENGINE COMBUSTION SECTION
5640 INSPECTION WINDOWS	6310 ENGINE/TRANSMISSION COUPLING	7250 TURBINE SECTION
3040 INSPECTION WINDOWS	6320 MAIN ROTOR GEARBOX	7260 TURBINE ENGINE ACCESSORY DRIVE
57 WINGS	6321 MAIN ROTOR BRAKE	7261 TURBINE ENGINE OIL SYSTEM
	6322 ROTORCRAFT COOLING FAN SYSTEM	7270 TURBINE ENGINE BYPASS SECTION
5700 WING STRUCTURE	6330 MAIN ROTOR TRANSMISSION MOUNT	7270 TORBINE ENGINE BIT AGG GEOTION
5710 WING MAIN FRAME STRUCTURE	6340 ROTOR DRIVE INDICATING SYSTEM	73 ENGINE FUEL & CONTROL
5711 WING SPAR STRUCTURE		7300 ENGINE FUEL & CONTROL
5712 WING RIB STRUCTURE	<u>64 TAIL ROTOR</u>	7310 ENGINE FUEL DISTRIBUTION
5713 WING LONGERON/STRINGER	6400 TAIL ROTOR SYSTEM	7310 ENGINE FUEL DISTRIBUTION 7311 ENGINE FUEL-OIL COOLER
5714 WING CENTER BOX	6410 TAIL ROTOR BLADE	
5720 WING MISCELLANEOUS STRUCTURE	6420 TAIL ROTOR BLADE	7312 FUEL HEATER 7313 FUEL INJECTOR NOZZLE
5730 WING PLATES/SKINS	6440 TAIL ROTOR INDICATING SYSTEM	
5740 WING ATTACH FITTINGS	0440 TAIL ROTOR INDICATING STSTEM	7314 ENGINE FUEL PUMP
5741 WING, FUSELAGE ATTACH FITTINGS	65 TAIL ROTOR DRIVE	7320 FUEL CONTROLLING SYSTEM
5742 WING, NAC/PYLON ATTACH FITTINGS	<u> </u>	7321 FUEL CONTROL/ELECTRONIC
5743 WING, LANDING GEAR ATTACH FITTINGS	6500 TAIL ROTOR DRIVE SYSTEM	7322 FUEL CONTROL/CARBURETOR
5744 CONTROL SURFACE ATTACH FITTINGS	6510 TAIL ROTOR DRIVE SHAFT	7323 TURBINE GOVERNOR
5750 WING CONTROL SURFACE STRUCTURE	6520 TAIL ROTOR GEARBOX	7324 FUEL DIVIDER
5751 AILERON STRUCTURE	6540 TAIL ROTOR DRIVE INDICATING SYSTEM	7330 ENGINE FUEL INDICATING SYSTEM
5752 AILERON TAB STRUCTURE		7331 FUEL FLOW INDICATING
5753 TE FLAP STRUCTURE		7332 FUEL PRESSURE INDICATING
5754 LEADING EDGE DEVICE STRUCTURE		7333 FUEL FLOW SENSOR
5755 SPOILER STRUCTURE		7334 FUEL PRESSURE SENSOR

74	<u>IGNITION</u>	<u>78 E</u>	ENGINE EXHAUST	8530	RECIPROCATING ENGINE CYLINDER SECTION
7400	IGNITION SYSTEM	7800	ENGINE EXHAUST SYSTEM	8540	RECIPROCATING ENGINE REAR SECTION
7410	IGNITION POWER SUPPLY	7810	ENGINE COLLECTOR/TAILPIPE/NOZZLE	8550	RECIPROCATING ENGINE OIL SYSTEM
7411	LOW TENSION COIL	7820	ENGINE NOISE SUPPRESSOR		
7412	EXCITER	7830	THRUST REVERSER		
7413	INDUCTION VIBRATOR				
7414	MAGNETO/DISTRIBUTOR	79 I	ENGINE OIL		
7420	IGNITION HARNESS (DISTRIBUTION)	<u> </u>			
7421	SPARK PLUG/IGNITER	7900	ENGINE OIL SYSTEM (AIRFRAME)		
7430	IGNITION SWITCHING	7910	ENGINE OIL STORAGE (AIRFRAME)		
		7920	ENGINE OIL DISTRIBUTION (AIRFRAME)		
<u>75</u>	<u>AIR</u>	7921	ENGINE OIL COOLER		
7500	ENGINE BLEED AIR SYSTEM	7922	ENGINE OIL TEMP. REGULATOR		
7510	ENGINE ANTI-ICING SYSTEM	7923	OIL SHUTOFF VALVE		
7520	ENGINE COOLING SYSTEM	7930	ENGINE OIL INDICATING SYSTEM		
	COM PRESSOR BLEED CONTROL	7931	ENGINE OIL PRESSURE		
7530	COMPRESSOR BLEED CONTROL  COMPRESSOR BLEED GOVERNOR	7932	ENGINE OIL QUANTITY		
7531	COMPRESSOR BLEED GOVERNOR  COMPRESSOR BLEED VALVE	7933	ENGINE OIL TEMPERATURE		
7532					
7540	BLEED AIR INDICATING SYSTEM	80 9	<u>STARTING</u>		
<u>76</u>	ENGINE CONTROLS	8000	ENGINE STARTING SYSTEM		
7600	ENGINE CONTROLS	8010	ENGINE CRANKING		
7600	ENGINE CONTROLS  ENGINE SYNCHRONIZING	8011	ENGINE STARTER		
7601		8012	ENGINE START VALVES/CONTROLS		
7602	MIXTURE CONTROL	0012	ENGINE OTAKT VALVEO/OONTROLO		
7603	POWER LEVER	81	TURBOCHARGING		
7620	ENGINE EMERGENCY SHUTDOWN SYSTEM		<u> </u>		
77	ENGINE INDICATING	8100	EXHAUST TURBINE SYSTEM (RECIP)		
		8110	POWER RECOVERY TURBINE (RECIP)		
7700	ENGINE INDICATING SYSTEM	8120	EXHAUST TURBOCHARGER		
7710	POWER INDICATING SYSTEM				
7711	ENGINE PRESSURE RATIO (EPR)	<u>82</u>	WATER INJECTION		
7712	ENGINE BM EP/TORQUE INDICATING	8200	WATER INJECTION SYSTEM		
7713	MANIFOLD PRESSURE (MP) INDICATING				
7714	ENGINE RPM INDICATING SYSTEM	83	ACCESSORY GEARBOXES		
7720	ENGINE TEMP. INDICATING SYSTEM	8300	ACCESSORY GEARBOXES		
7721	CYLINDER HEAD TEMP (CHT) INDICATING	0000	NOOLOGOKT GEMIDONEG		
7722	ENG. EGT/TIT INDICATING SYSTEM	8.5	RECIPROCATING ENGINE		
7730	ENGINE IGNITION ANALYZER SYSTEM				
7731	ENGINE IGNITION ANALYZER	8500	ENGINE (RECIPROCATING)		
7732	ENGINE VIBRATION ANALYZER	8510	RECIPROCATING ENGINE FRONT SECTIO		
7740	ENGINE INTEGRATED INSTRUMENT SYSTEM	8520	RECIPROCATING ENGINE POWER SECTION	N	

## **MECHANICS CREED**

UPON MY HONOR I swear that I shall hold in sacred trust the rights and privileges conferred upon me as a certified mechanic. Knowing full well that the safety and lives of others are dependent upon my skill and judgment, I shall never knowingly subject others to risks which I would not be willing to assume for myself, or for those dear to me.

IN DISCHARGING this trust, I pledge myself never to undertake work or approve work which I feel to be beyond the limits of my knowledge; nor shall I allow any non-certificated superior to persuade me to approve aircraft or equipment as airworthy against my better judgment; nor shall I permit my judgment to be influenced by money or other personal gain; nor shall I pass as airworthy aircraft or equipment about which I am in doubt, either as a result of direct inspection or uncertainty regarding the ability of others who have worked on it to accomplish their work satisfactorily.

I REALIZE the grave responsibility which is mine as a certified airman, to exercise my judgment on the airworthiness of aircraft and equipment. I, therefore, pledge unyielding adherence to these precepts for the advancement of aviation and for the dignity of my vocation.